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SEQUENCE LISTING

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<110> Alitalo, et al.

<120> MATERIALS AND METHODS FOR COLORECTAL CANCER SCREENING, DIAGNOSIS AND THERAPY

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<150> US 60/494,221

<151> 2004-08-08

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tctccgacgt aaagttcaac agatgcatta cctctcagct catcaagtgg tttagcaatt	2160
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39467A.txt.txt
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 <213> Homo sapiens

<220>
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 <223> Prox-1 Protein

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Phe Phe Ala Lys Ala Arg Ala Thr Phe Phe Ser Ala Met Asn Pro Gln
 35 40 45

Gly Ser Glu Gln Asp Val Glu Tyr Ser Val Val Gln His Ala Asp Gly
 50 55 60

Glu Lys Ser Asn Val Leu Arg Lys Leu Leu Lys Arg Ala Asn Ser Tyr
 65 70 75 80

Glu Asp Ala Met Met Pro Phe Pro Gly Ala Thr Ile Ile Ser Gln Leu
 85 90 95

Leu Lys Asn Asn Met Asn Lys Asn Gly Gly Thr Glu Pro Ser Phe Gln
 100 105 110

Ala Ser Gly Leu Ser Ser Thr Gly Ser Glu Val His Gln Glu Asp Ile
 115 120 125

Cys Ser Asn Ser Ser Arg Asp Ser Pro Pro Glu Cys Leu Ser Pro Phe
 130 135 140

Gly Arg Pro Thr Met Ser Gln Phe Asp Met Asp Arg Leu Cys Asp Glu

39467A.txt.txt
155

145 150 160
 His Leu Arg Ala Lys Arg Ala Arg Val Glu Asn Ile Ile Arg Gly Met
 165 170 175
 Ser His Ser Pro Ser Val Ala Leu Arg Gly Asn Glu Asn Glu Arg Glu
 180 185 190
 Met Ala Pro Gln Ser Val Ser Pro Arg Glu Ser Tyr Arg Glu Asn Lys
 195 200 205
 Arg Lys Gln Lys Leu Pro Gln Gln Gln Gln Ser Phe Gln Gln Leu
 210 215 220
 Val Ser Ala Arg Lys Glu Gln Lys Arg Glu Glu Arg Arg Gln Leu Lys
 225 230 235 240
 Gln Gln Leu Glu Asp Met Gln Lys Gln Leu Arg Gln Leu Gln Glu Lys
 245 250 255
 Phe Tyr Gln Ile Tyr Asp Ser Thr Asp Ser Glu Asn Asp Glu Asp Gly
 260 265 270
 Asn Leu Ser Glu Asp Ser Met Arg Ser Glu Ile Leu Asp Ala Arg Ala
 275 280 285
 Gln Asp Ser Val Gly Arg Ser Asp Asn Glu Met Cys Glu Leu Asp Pro
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 Gly Gln Phe Ile Asp Arg Ala Arg Ala Leu Ile Arg Glu Gln Glu Met
 305 310 315 320
 Ala Glu Asn Lys Pro Lys Arg Glu Gly Asn Asn Lys Glu Arg Asp His
 325 330 335
 Gly Pro Asn Ser Leu Gln Pro Glu Gly Lys His Leu Ala Glu Thr Leu
 340 345 350
 Lys Gln Glu Leu Asn Thr Ala Met Ser Gln Val Val Asp Thr Val Val
 355 360 365
 Lys Val Phe Ser Ala Lys Pro Ser Arg Gln Val Pro Gln Val Phe Pro
 370 375 380
 Pro Leu Gln Ile Pro Gln Ala Arg Phe Ala Val Asn Gly Glu Asn His
 385 390 395 400
 Asn Phe His Thr Ala Asn Gln Arg Leu Gln Cys Phe Gly Asp Val Ile
 405 410 415
 Ile Pro Asn Pro Leu Asp Thr Phe Gly Asn Val Gln Met Ala Ser Ser

420

39467A.txt.txt
425

430

Thr Asp Gln Thr Glu Ala Leu Pro Leu Val Val Arg Lys Asn Ser Ser
435 440 445

Asp Gln Ser Ala Ser Gly Pro Ala Ala Gly Gly His His Gln Pro Leu
450 455 460

His Gln Ser Pro Leu Ser Ala Thr Thr Gly Phe Thr Thr Ser Thr Phe
465 470 475 480

Arg His Pro Phe Pro Leu Pro Leu Met Ala Tyr Pro Phe Gln Ser Pro
485 490 495

Leu Gly Ala Pro Ser Gly Ser Phe Ser Gly Lys Asp Arg Ala Ser Pro
500 505 510

Glu Ser Leu Asp Leu Thr Arg Asp Thr Thr Ser Leu Arg Thr Lys Met
515 520 525

Ser Ser His His Leu Ser His His Pro Cys Ser Pro Ala His Pro Pro
530 535 540

Ser Thr Ala Glu Gly Leu Ser Leu Ser Leu Ile Lys Ser Glu Cys Gly
545 550 555 560

Asp Leu Gln Asp Met Ser Glu Ile Ser Pro Tyr Ser Gly Ser Ala Met
565 570 575

Gln Glu Gly Leu Ser Pro Asn His Leu Lys Lys Ala Lys Leu Met Phe
580 585 590

Phe Tyr Thr Arg Tyr Pro Ser Ser Asn Met Leu Lys Thr Tyr Phe Ser
595 600 605

Asp Val Lys Phe Asn Arg Cys Ile Thr Ser Gln Leu Ile Lys Trp Phe
610 615 620

Ser Asn Phe Arg Glu Phe Tyr Tyr Ile Gln Met Glu Lys Tyr Ala Arg
625 630 635 640

Gln Ala Ile Asn Asp Gly Val Thr Ser Thr Glu Glu Leu Ser Ile Thr
645 650 655

Arg Asp Cys Glu Leu Tyr Arg Ala Leu Asn Met His Tyr Asn Lys Ala
660 665 670

Asn Asp Phe Glu Val Pro Glu Arg Phe Leu Glu Val Ala Gln Ile Thr
675 680 685

Leu Arg Glu Phe Phe Asn Ala Ile Ile Ala Gly Lys Asp Val Asp Pro

690

695

39467A.txt.txt
700

Ser Trp Lys Lys Ala Ile Tyr Lys Val Ile Cys Lys Leu Asp Ser Glu
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Val Pro Glu Ile Phe Lys Ser Pro Asn Cys Leu Gln Glu Leu Leu His
725 730 735

Glu

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21

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21

<210> 6
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21

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39467A.txt.txt

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21

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21

<210> 9
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 <223> EGFP A18 antisense

<400> 9
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21

<210> 10
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<220>
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 cacacgtgca atccctgaac tgacaaaact gctaaatgac gaggaccagg tggtgggttaa 720
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39467A.txt.txt

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39467A.txt.txt

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tt 3362

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 <212> PRT
 <213> Homo sapiens

<220>
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 <223> Beta-catenin
 <400> 11

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Asp Arg Lys Ala Ala Val Ser His Trp Gln Gln Gln Ser Tyr Leu Asp
20 25 30

Ser Gly Ile His Ser Gly Ala Thr Thr Thr Ala Pro Ser Leu Ser Gly
35 40 45

Lys Gly Asn Pro Glu Glu Glu Asp Val Asp Thr Ser Gln Val Leu Tyr
50 55 60

Glu Trp Glu Gln Gly Phe Ser Gln Ser Phe Thr Gln Glu Gln Val Ala
65 70 75 80

Asp Ile Asp Gly Gln Tyr Ala Met Thr Arg Ala Gln Arg Val Arg Ala
85 90 95

Ala Met Phe Pro Glu Thr Leu Asp Glu Gly Met Gln Ile Pro Ser Thr
100 105 110

Gln Phe Asp Ala Ala His Pro Thr Asn Val Gln Arg Leu Ala Glu Pro
115 120 125

Ser Gln Met Leu Lys His Ala Val Val Asn Leu Ile Asn Tyr Gln Asp
130 135 140

39467A.txt.txt

Asp Ala Glu Leu Ala Thr Arg Ala Ile Pro Glu Leu Thr Lys Leu Leu
 145 150 155 160

Asn Asp Glu Asp Gln Val Val Val Asn Lys Ala Ala Val Met Val His
 165 170 175

Gln Leu Ser Lys Lys Glu Ala Ser Arg His Ala Ile Met Arg Ser Pro
 180 185 190

Gln Met Val Ser Ala Ile Val Arg Thr Met Gln Asn Thr Asn Asp Val
 195 200 205

Glu Thr Ala Arg Cys Thr Ala Gly Thr Leu His Asn Leu Ser His His
 210 215 220

Arg Glu Gly Leu Leu Ala Ile Phe Lys Ser Gly Gly Ile Pro Ala Leu
 225 230 235 240

Val Lys Met Leu Gly Ser Pro Val Asp Ser Val Leu Phe Tyr Ala Ile
 245 250 255

Thr Thr Leu His Asn Leu Leu Leu His Gln Glu Gly Ala Lys Met Ala
 260 265 270

Val Arg Leu Ala Gly Gly Leu Gln Lys Met Val Ala Leu Leu Asn Lys
 275 280 285

Thr Asn Val Lys Phe Leu Ala Ile Thr Thr Asp Cys Leu Gln Ile Leu
 290 295 300

Ala Tyr Gly Asn Gln Glu Ser Lys Leu Ile Ile Leu Ala Ser Gly Gly
 305 310 315 320

Pro Gln Ala Leu Val Asn Ile Met Arg Thr Tyr Thr Tyr Glu Lys Leu
 325 330 335

Leu Trp Thr Thr Ser Arg Val Leu Lys Val Leu Ser Val Cys Ser Ser
 340 345 350

Asn Lys Pro Ala Ile Val Glu Ala Gly Gly Met Gln Ala Leu Gly Leu
 355 360 365

His Leu Thr Asp Pro Ser Gln Arg Leu Val Gln Asn Cys Leu Trp Thr
 370 375 380

Leu Arg Asn Leu Ser Asp Ala Ala Thr Lys Gln Glu Gly Met Glu Gly
 385 390 395 400

Leu Leu Gly Thr Leu Val Gln Leu Leu Gly Ser Asp Asp Ile Asn Val
 405 410 415

39467A.txt.txt

Val Thr Cys Ala Ala Gly Ile Leu Ser Asn Leu Thr Cys Asn Asn Tyr
 420 425 430
 Lys Asn Lys Met Met Val Cys Gln Val Gly Gly Ile Glu Ala Leu Val
 435 440 445
 Arg Thr Val Leu Arg Ala Gly Asp Arg Glu Asp Ile Thr Glu Pro Ala
 450 455 460
 Ile Cys Ala Leu Arg His Leu Thr Ser Arg His Gln Glu Ala Glu Met
 465 470 475 480
 Ala Gln Asn Ala Val Arg Leu His Tyr Gly Leu Pro Val Val Val Lys
 485 490 495
 Leu Leu His Pro Pro Ser His Trp Pro Leu Ile Lys Ala Thr Val Gly
 500 505 510
 Leu Ile Arg Asn Leu Ala Leu Cys Pro Ala Asn His Ala Pro Leu Arg
 515 520 525
 Glu Gln Gly Ala Ile Pro Arg Leu Val Gln Leu Leu Val Arg Ala His
 530 535 540
 Gln Asp Thr Gln Arg Arg Thr Ser Met Gly Gly Thr Gln Gln Gln Phe
 545 550 555 560
 Val Glu Gly Val Arg Met Glu Glu Ile Val Glu Gly Cys Thr Gly Ala
 565 570 575
 Leu His Ile Leu Ala Arg Asp Val His Asn Arg Ile Val Ile Arg Gly
 580 585 590
 Leu Asn Thr Ile Pro Leu Phe Val Gln Leu Leu Tyr Ser Pro Ile Glu
 595 600 605
 Asn Ile Gln Arg Val Ala Ala Gly Val Leu Cys Glu Leu Ala Gln Asp
 610 615 620
 Lys Glu Ala Ala Glu Ala Ile Glu Ala Glu Gly Ala Thr Ala Pro Leu
 625 630 635 640
 Thr Glu Leu Leu His Ser Arg Asn Glu Gly Val Ala Thr Tyr Ala Ala
 645 650 655
 Ala Val Leu Phe Arg Met Ser Glu Asp Lys Pro Gln Asp Tyr Lys Lys
 660 665 670
 Arg Leu Ser Val Glu Leu Thr Ser Ser Leu Phe Arg Thr Glu Pro Met
 675 680 685

39467A.txt.txt

Ala Trp Asn Glu Thr Ala Asp Leu Gly Leu Asp Ile Gly Ala Gln Gly
690 695 700

Glu Pro Leu Gly Tyr Arg Gln Asp Asp Pro Ser Tyr Arg Ser Phe His
705 710 715 720

Ser Gly Gly Tyr Gly Gln Asp Ala Leu Gly Met Asp Pro Met Met Glu
725 730 735

His Glu Met Gly Gly His His Pro Gly Ala Asp Tyr Pro Val Asp Gly
740 745 750

Leu Pro Asp Leu Gly His Ala Gln Asp Leu Met Asp Gly Leu Pro Pro
755 760 765

Gly Asp Ser Asn Gln Leu Ala Trp Phe Asp Thr Asp Leu
770 775 780

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<212> DNA
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<220>
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39467A.txt.txt

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<210> 13
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<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> TCF-4

<400> 13

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1 5 10 15

39467A.txt.txt

Ser Asp Leu Leu Asp Phe Ser Ala Met Phe Ser Pro Pro Val Ser Ser
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 Gly Lys Asn Gly Pro Thr Ser Leu Ala Ser Gly His Phe Thr Gly Ser
 35 40 45
 Asn Val Glu Asp Arg Ser Ser Ser Gly Ser Trp Gly Asn Gly Gly His
 50 55 60
 Pro Ser Pro Ser Arg Asn Tyr Gly Asp Gly Thr Pro Tyr Asp His Met
 65 70 75 80
 Thr Ser Arg Asp Leu Gly Ser His Asp Asn Leu Ser Pro Pro Phe Val
 85 90 95
 Asn Ser Arg Ile Gln Ser Lys Thr Glu Arg Gly Ser Tyr Ser Ser Tyr
 100 105 110
 Gly Arg Glu Ser Asn Leu Gln Gly Cys His Gln Gln Ser Leu Leu Gly
 115 120 125
 Gly Asp Met Asp Met Gly Asn Pro Gly Thr Leu Ser Pro Thr Lys Pro
 130 135 140
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 Ser Met Cys Asn Ile Asn Ile Asp Glu Cys Ala Gly Asn Pro Cys His
 675 680 685
 Asn Gly Gly Thr Cys Glu Asp Gly Ile Asn Gly Phe Thr Cys Arg Cys
 690 695 700
 Pro Glu Gly Tyr His Asp Pro Thr Cys Leu Ser Glu Val Asn Glu Cys
 705 710 715 720

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Asn Ser Asn Pro Cys Val His Gly Ala Cys Arg Asp Ser Leu Asn Gly
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 Tyr Lys Cys Asp Cys Asp Pro Gly Trp Ser Gly Thr Asn Cys Asp Ile
 740 745 750
 Asn Asn Asn Glu Cys Glu Ser Asn Pro Cys Val Asn Gly Gly Thr Cys
 755 760 765
 Lys Asp Met Thr Ser Gly Tyr Val Cys Thr Cys Arg Glu Gly Phe Ser
 770 775 780
 Gly Pro Asn Cys Gln Thr Asn Ile Asn Glu Cys Ala Ser Asn Pro Cys
 785 790 795 800
 Leu Asn Gln Gly Thr Cys Ile Asp Asp Val Ala Gly Tyr Lys Cys Asn
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 Cys Leu Leu Pro Tyr Thr Gly Ala Thr Cys Glu Val Val Leu Ala Pro
 820 825 830
 Cys Ala Pro Ser Pro Cys Arg Asn Gly Gly Glu Cys Arg Gln Ser Glu
 835 840 845
 Asp Tyr Glu Ser Phe Ser Cys Val Cys Pro Thr Gly Trp Gln Ala Gly
 850 855 860
 Gln Thr Cys Glu Val Asp Ile Asn Glu Cys Val Leu Ser Pro Cys Arg
 865 870 875 880
 His Gly Ala Ser Cys Gln Asn Thr His Gly Gly Tyr Arg Cys His Cys
 885 890 895
 Gln Ala Gly Tyr Ser Gly Arg Asn Cys Glu Thr Asp Ile Asp Asp Cys
 900 905 910
 Arg Pro Asn Pro Cys His Asn Gly Gly Ser Cys Thr Asp Gly Ile Asn
 915 920 925
 Thr Ala Phe Cys Asp Cys Leu Pro Gly Phe Arg Gly Thr Phe Cys Glu
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 Glu Asp Ile Asn Glu Cys Ala Ser Asp Pro Cys Arg Asn Gly Ala Asn
 945 950 955 960
 Cys Thr Asp Cys Val Asp Ser Tyr Thr Cys Thr Cys Pro Ala Gly Phe
 965 970 975
 Ser Gly Ile His Cys Glu Asn Asn Thr Pro Asp Cys Thr Glu Ser Ser
 980 985 990

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Cys Phe Asn Gly Gly Thr Cys Val Asp Gly Ile Asn Ser Phe Thr Cys
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 Asn Glu Cys Asp Ser Gln Pro Cys Leu His Gly Gly Thr Cys Gln
 1025 1030 1035
 Asp Gly Cys Gly Ser Tyr Arg Cys Thr Cys Pro Gln Gly Tyr Thr
 1040 1045 1050
 Gly Pro Asn Cys Gln Asn Leu Val His Trp Cys Asp Ser Ser Pro
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 Cys Lys Asn Gly Gly Lys Cys Trp Gln Thr His Thr Gln Tyr Arg
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 Ser Val Ser Cys Glu Val Ala Ala Gln Arg Gln Gly Val Asp Val
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 Thr His His Cys Arg Cys Gln Ala Gly Tyr Thr Gly Ser Tyr Cys
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 Asn Thr Tyr Lys Cys Ser Cys Pro Arg Gly Thr Gln Gly Val His
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 Ser Arg Ser Pro Lys Cys Phe Asn Asn Gly Thr Cys Val Asp Gln
 1235 1240 1245

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 Cys Glu Cys Arg Ala Gly His Thr Gly Arg Arg Cys Glu Ser Val
 1295 1300 1305
 Ile Asn Gly Cys Lys Gly Lys Pro Cys Lys Asn Gly Gly Thr Cys
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 Cys Gln Phe Pro Ala Ser Ser Pro Cys Leu Gly Gly Asn Pro Cys
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 Arg Cys Leu Cys Pro Ala Lys Phe Asn Gly Leu Leu Cys His Ile
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 Leu Asp Tyr Ser Phe Gly Gly Gly Ala Gly Arg Asp Ile Pro Pro
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 Pro Leu Ile Glu Glu Ala Cys Glu Leu Pro Glu Cys Gln Glu Asp
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 Ala Gly Asn Lys Val Cys Ser Leu Gln Cys Asn Asn His Ala Cys
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 Gly Trp Asp Gly Gly Asp Cys Ser Leu Asn Phe Asn Asp Pro Trp
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 Lys Asn Cys Thr Gln Ser Leu Gln Cys Trp Lys Tyr Phe Ser Asp
 1490 1495 1500

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 Leu Arg Glu Leu Ser Arg Val Leu His Thr Asn Val Val Phe Lys
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 Gly Ala Leu Met Asp Asp Asn Gln Asn Glu Trp Gly Asp Glu Asp
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 Asp Leu Asp Asp Gln Thr Asp His Arg Gln Trp Thr Gln Gln His
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 1850 1855 1860
 Pro Gln Gly Glu Val Asp Ala Asp Cys Met Asp Val Asn Val Arg
 1865 1870 1875
 Gly Pro Asp Gly Phe Thr Pro Leu Met Ile Ala Ser Cys Ser Gly
 1880 1885 1890
 Gly Gly Leu Glu Thr Gly Asn Ser Glu Glu Glu Glu Asp Ala Pro
 1895 1900 1905
 Ala Val Ile Ser Asp Phe Ile Tyr Gln Gly Ala Ser Leu His Asn
 1910 1915 1920
 Gln Thr Asp Arg Thr Gly Glu Thr Ala Leu His Leu Ala Ala Arg
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 Tyr Ser Arg Ser Asp Ala Ala Lys Arg Leu Leu Glu Ala Ser Ala
 1940 1945 1950
 Asp Ala Asn Ile Gln Asp Asn Met Gly Arg Thr Pro Leu His Ala
 1955 1960 1965
 Ala Val Ser Ala Asp Ala Gln Gly Val Phe Gln Ile Leu Ile Arg
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 Asn Arg Ala Thr Asp Leu Asp Ala Arg Met His Asp Gly Thr Thr
 1985 1990 1995
 Pro Leu Ile Leu Ala Ala Arg Leu Ala Val Glu Gly Met Leu Glu
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 2045 2050 2055
 Asn Asn Arg Glu Glu Thr Pro Leu Phe Leu Ala Ala Arg Glu Gly
 2060 2065 2070
 Ser Tyr Glu Thr Ala Lys Val Leu Leu Asp His Phe Ala Asn Arg
 2075 2080 2085
 Asp Ile Thr Asp His Met Asp Arg Leu Pro Arg Asp Ile Ala Gln
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 Arg Leu Gln Ser Gly Met Val Pro Asn Gln Tyr Asn Pro Leu Arg
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 Gly Ser Val Ala Pro Gly Pro Leu Ser Thr Gln Ala Pro Ser Leu
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 Gln His Gly Met Val Gly Pro Leu His Ser Ser Leu Ala Ala Ser
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 Ala Leu Ser Gln Met Met Ser Tyr Gln Gly Leu Pro Ser Thr Arg
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 Leu Ala Thr Gln Pro His Leu Val Gln Thr Gln Gln Val Gln Pro
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 His Leu Gly Val Ser Ser Ala Ala Ser Gly His Leu Gly Arg Ser
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 Pro Ser Ser Leu Ala Val His Thr Ile Leu Pro Gln Glu Ser Pro
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39467A.txt.txt

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39467A.txt.txt

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39467A.txt.txt

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39467A.txt.txt

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 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Notch-2

<400> 17

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 35 40 45

Gly Tyr Cys Lys Cys Pro Glu Gly Phe Leu Gly Glu Tyr Cys Gln His
 50 55 60

Arg Asp Pro Cys Glu Lys Asn Arg Cys Gln Asn Gly Gly Thr Cys Val
 65 70 75 80

Ala Gln Ala Met Leu Gly Lys Ala Thr Cys Arg Cys Ala Ser Gly Phe
 85 90 95

Thr Gly Glu Asp Cys Gln Tyr Ser Thr Ser His Pro Cys Phe Val Ser
 100 105 110

Arg Pro Cys Leu Asn Gly Gly Thr Cys His Met Leu Ser Arg Asp Thr
 115 120 125

Tyr Glu Cys Thr Cys Gln Val Gly Phe Thr Gly Lys Glu Cys Gln Trp
 130 135 140

Thr Asp Ala Cys Leu Ser His Pro Cys Ala Asn Gly Ser Thr Cys Thr
 145 150 155 160

Thr Val Ala Asn Gln Phe Ser Cys Lys Cys Leu Thr Gly Phe Thr Gly
 165 170 175

Gln Lys Cys Glu Thr Asp Val Asn Glu Cys Asp Ile Pro Gly His Cys
 180 185 190

Gln His Gly Gly Thr Cys Leu Asn Leu Pro Gly Ser Tyr Gln Cys Gln
 195 200 205

Cys Pro Gln Gly Phe Thr Gly Gln Tyr Cys Asp Ser Leu Tyr Val Pro
 210 215 220

Cys Ala Pro Ser Pro Cys Val Asn Gly Gly Thr Cys Arg Gln Thr Gly

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235

225 230 240
 Asp Phe Thr Phe Glu Cys Asn Cys Leu Pro Gly Phe Glu Gly Ser Thr
 245 250 255
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 260 265 270
 Gly Val Cys Val Asp Gly Val Asn Thr Tyr Asn Cys Arg Cys Pro Pro
 275 280 285
 Gln Trp Thr Gly Gln Phe Cys Thr Glu Asp Val Asp Glu Cys Leu Leu
 290 295 300
 Gln Pro Asn Ala Cys Gln Asn Gly Gly Thr Cys Ala Asn Arg Asn Gly
 305 310 315 320
 Gly Tyr Gly Cys Val Cys Val Asn Gly Trp Ser Gly Asp Asp Cys Ser
 325 330 335
 Glu Asn Ile Asp Asp Cys Ala Phe Ala Ser Cys Thr Pro Gly Ser Thr
 340 345 350
 Cys Ile Asp Arg Val Ala Ser Phe Ser Cys Met Cys Pro Glu Gly Lys
 355 360 365
 Ala Gly Leu Leu Cys His Leu Asp Asp Ala Cys Ile Ser Asn Pro Cys
 370 375 380
 His Lys Gly Ala Leu Cys Asp Thr Asn Pro Leu Asn Gly Gln Tyr Ile
 385 390 395 400
 Cys Thr Cys Pro Gln Gly Tyr Lys Gly Ala Asp Cys Thr Glu Asp Val
 405 410 415
 Asp Glu Cys Ala Met Ala Asn Ser Asn Pro Cys Glu His Ala Gly Lys
 420 425 430
 Cys Val Asn Thr Asp Gly Ala Phe His Cys Glu Cys Leu Lys Gly Tyr
 435 440 445
 Ala Gly Pro Arg Cys Glu Met Asp Ile Asn Glu Cys His Ser Asp Pro
 450 455 460
 Cys Gln Asn Asp Ala Thr Cys Leu Asp Lys Ile Gly Gly Phe Thr Cys
 465 470 475 480
 Leu Cys Met Pro Gly Phe Lys Gly Val His Cys Glu Leu Glu Ile Asn
 485 490 495
 Glu Cys Gln Ser Asn Pro Cys Val Asn Asn Gly Gln Cys Val Asp Lys

39467A.txt.txt
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510

Val Asn Arg Phe Gln Cys Leu Cys Pro Pro Gly Phe Thr Gly Pro Val
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Cys Gln Ile Asp Ile Asp Asp Cys Ser Ser Thr Pro Cys Leu Asn Gly
 530 535 540

Ala Lys Cys Ile Asp His Pro Asn Gly Tyr Glu Cys Gln Cys Ala Thr
 545 550 555 560

Gly Phe Thr Gly Val Leu Cys Glu Glu Asn Ile Asp Asn Cys Asp Pro
 565 570 575

Asp Pro Cys His His Gly Gln Cys Gln Asp Gly Ile Asp Ser Tyr Thr
 580 585 590

Cys Ile Cys Asn Pro Gly Tyr Met Gly Ala Ile Cys Ser Asp Gln Ile
 595 600 605

Asp Glu Cys Tyr Ser Ser Pro Cys Leu Asn Asp Gly Arg Cys Ile Asp
 610 615 620

Leu Val Asn Gly Tyr Gln Cys Asn Cys Gln Pro Gly Thr Ser Gly Val
 625 630 635 640

Asn Cys Glu Ile Asn Phe Asp Asp Cys Ala Ser Asn Pro Cys Ile His
 645 650 655

Gly Ile Cys Met Asp Gly Ile Asn Arg Tyr Ser Cys Val Cys Ser Pro
 660 665 670

Gly Phe Thr Gly Gln Arg Cys Asn Ile Asp Ile Asp Glu Cys Ala Ser
 675 680 685

Asn Pro Cys Arg Lys Gly Ala Thr Cys Ile Asn Gly Val Asn Gly Phe
 690 695 700

Arg Cys Ile Cys Pro Glu Gly Pro His His Pro Ser Cys Tyr Ser Gln
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Val Asn Glu Cys Leu Ser Asn Pro Cys Ile His Gly Asn Cys Thr Gly
 725 730 735

Gly Leu Ser Gly Tyr Lys Cys Leu Cys Asp Ala Gly Trp Val Gly Ile
 740 745 750

Asn Cys Glu Val Asp Lys Asn Glu Cys Leu Ser Asn Pro Cys Gln Asn
 755 760 765

Gly Gly Thr Cys Asp Asn Leu Val Asn Gly Tyr Arg Cys Thr Cys Lys

39467A.txt.txt
780

770

775

Lys Gly Phe Lys Gly Tyr Asn Cys Gln Val Asn Ile Asp Glu Cys Ala
785 790 795 800

Ser Asn Pro Cys Leu Asn Gln Gly Thr Cys Phe Asp Asp Ile Ser Gly
805 810 815

Tyr Thr Cys His Cys Val Leu Pro Tyr Thr Gly Lys Asn Cys Gln Thr
820 825 830

Val Leu Ala Pro Cys Ser Pro Asn Pro Cys Glu Asn Ala Ala Val Cys
835 840 845

Lys Glu Ser Pro Asn Phe Glu Ser Tyr Thr Cys Leu Cys Ala Pro Gly
850 855 860

Trp Gln Gly Gln Arg Cys Thr Ile Asp Ile Asp Glu Cys Ile Ser Lys
865 870 875 880

Pro Cys Met Asn His Gly Leu Cys His Asn Thr Gln Gly Ser Tyr Met
885 890 895

Cys Glu Cys Pro Pro Gly Phe Ser Gly Met Asp Cys Glu Glu Asp Ile
900 905 910

Asp Asp Cys Leu Ala Asn Pro Cys Gln Asn Gly Gly Ser Cys Met Asp
915 920 925

Gly Val Asn Thr Phe Ser Cys Leu Cys Leu Pro Gly Phe Thr Gly Asp
930 935 940

Lys Cys Gln Thr Asp Met Asn Glu Cys Leu Ser Glu Pro Cys Lys Asn
945 950 955 960

Gly Gly Thr Cys Ser Asp Tyr Val Asn Ser Tyr Thr Cys Lys Cys Gln
965 970 975

Ala Gly Phe Asp Gly Val His Cys Glu Asn Asn Ile Asn Glu Cys Thr
980 985 990

Glu Ser Ser Cys Phe Asn Gly Gly Thr Cys Val Asp Gly Ile Asn Ser
995 1000 1005

Phe Ser Cys Leu Cys Pro Val Gly Phe Thr Gly Ser Phe Cys Leu
1010 1015 1020

His Glu Ile Asn Glu Cys Ser Ser His Pro Cys Leu Asn Glu Gly
1025 1030 1035

Thr Cys Val Asp Gly Leu Gly Thr Tyr Arg Cys Ser Cys Pro Leu

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1040

1045

1050

Gly Tyr Thr Gly Lys Asn Cys Gln Thr Leu Val Asn Leu Cys Ser
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 Arg Ser Pro Cys Lys Asn Lys Gly Thr Cys Val Gln Lys Lys Ala
 1070 1075 1080
 Glu Ser Gln Cys Leu Cys Pro Ser Gly Trp Ala Gly Ala Tyr Cys
 1085 1090 1095
 Asp Val Pro Asn Val Ser Cys Asp Ile Ala Ala Ser Arg Arg Gly
 1100 1105 1110
 Val Leu Val Glu His Leu Cys Gln His Ser Gly Val Cys Ile Asn
 1115 1120 1125
 Ala Gly Asn Thr His Tyr Cys Gln Cys Pro Leu Gly Tyr Thr Gly
 1130 1135 1140
 Ser Tyr Cys Glu Glu Gln Leu Asp Glu Cys Ala Ser Asn Pro Cys
 1145 1150 1155
 Gln His Gly Ala Thr Cys Ser Asp Phe Ile Gly Gly Tyr Arg Cys
 1160 1165 1170
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 Ser Cys Arg Cys Leu Pro Gly Phe Ala Gly Glu Arg Cys Glu Gly
 1250 1255 1260
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 1265 1270 1275
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 1280 1285 1290
 Ser Ala Phe Thr Gly Arg His Cys Glu Thr Phe Val Asp Val Cys

39467A.txt.txt

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 Asn Met Pro Asp Gly Phe Ile Cys Arg Cys Pro Pro Gly Phe Ser
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 Gly Ala Arg Cys Gln Ser Ser Cys Gly Gln Val Lys Cys Arg Lys
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 Gly Glu Gln Cys Val His Thr Ala Ser Gly Pro Arg Cys Phe Cys
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 Pro Ser Pro Arg Asp Cys Glu Ser Gly Cys Ala Ser Ser Pro Cys
 1370 1375 1380
 Gln His Gly Gly Ser Cys His Pro Gln Arg Gln Pro Pro Tyr Tyr
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 Ser Cys Gln Cys Ala Pro Pro Phe Ser Gly Ser Arg Cys Glu Leu
 1400 1405 1410
 Tyr Thr Ala Pro Pro Ser Thr Pro Pro Ala Thr Cys Leu Ser Gln
 1415 1420 1425
 Tyr Cys Ala Asp Lys Ala Arg Asp Gly Val Cys Asp Glu Ala Cys
 1430 1435 1440
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 Met Glu Asn Pro Trp Ala Asn Cys Ser Ser Pro Leu Pro Cys Trp
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 1490 1495 1500
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 Ile Val Val Leu Met Pro Pro Glu Gln Leu Leu Gln Asp Ala Arg

39467A.txt.txt

1550

1555

1560

Ser Phe Leu Arg Ala Leu Gly Thr Leu Leu His Thr Asn Leu Arg
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Ile Lys Arg Asp Ser Gln Gly Glu Leu Met Val Tyr Pro Tyr Tyr
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Gly Glu Lys Ser Ala Ala Met Lys Lys Gln Arg Met Thr Arg Arg
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Ser Leu Pro Gly Glu Gln Gly Gln Glu Val Ala Gly Ser Lys Val
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Cys Phe Lys Asn Thr Asp Ala Ala Ala Ala Leu Leu Ala Ser His
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Ala Ile Gln Gly Thr Leu Ser Tyr Pro Leu Val Ser Val Val Ser
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Glu Ser Leu Thr Pro Glu Arg Thr Gln Leu Leu Tyr Leu Leu Ala
 1670 1675 1680

Val Ala Val Val Ile Ile Leu Phe Ile Ile Leu Leu Gly Val Ile
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Met Ala Lys Arg Lys Arg Lys His Gly Ser Leu Trp Leu Pro Glu
 1700 1705 1710

Gly Phe Thr Leu Arg Arg Asp Ala Ser Asn His Lys Arg Arg Glu
 1715 1720 1725

Pro Val Gly Gln Asp Ala Val Gly Leu Lys Asn Leu Ser Val Gln
 1730 1735 1740

Val Ser Glu Ala Asn Leu Ile Gly Thr Gly Thr Ser Glu His Trp
 1745 1750 1755

Val Asp Asp Glu Gly Pro Gln Pro Lys Lys Val Lys Ala Glu Asp
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Glu Ala Leu Leu Ser Glu Glu Asp Asp Pro Ile Asp Arg Arg Pro
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 1790 1795 1800

Ser Leu Ala Leu Thr Pro Pro Gln Ala Glu Gln Glu Val Asp Val

39467A.txt.txt

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 1835 1840 1845
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 1850 1855 1860
 Tyr Gln Gly Ala Ser Leu Gln Ala Gln Thr Asp Arg Thr Gly Glu
 1865 1870 1875
 Met Ala Leu His Leu Ala Ala Arg Tyr Ser Arg Ala Asp Ala Ala
 1880 1885 1890
 Lys Arg Leu Leu Asp Ala Gly Ala Asp Ala Asn Ala Gln Asp Asn
 1895 1900 1905
 Met Gly Arg Cys Pro Leu His Ala Ala Val Ala Ala Asp Ala Gln
 1910 1915 1920
 Gly Val Phe Gln Ile Leu Ile Arg Asn Arg Val Thr Asp Leu Asp
 1925 1930 1935
 Ala Arg Met Asn Asp Gly Thr Thr Pro Leu Ile Leu Ala Ala Arg
 1940 1945 1950
 Leu Ala Val Glu Gly Met Val Ala Glu Leu Ile Asn Cys Gln Ala
 1955 1960 1965
 Asp Val Asn Ala Val Asp Asp His Gly Lys Ser Ala Leu His Trp
 1970 1975 1980
 Ala Ala Ala Val Asn Asn Val Glu Ala Thr Leu Leu Leu Leu Lys
 1985 1990 1995
 Asn Gly Ala Asn Arg Asp Met Gln Asp Asn Lys Glu Glu Thr Pro
 2000 2005 2010
 Leu Phe Leu Ala Ala Arg Glu Gly Ser Tyr Glu Ala Ala Lys Ile
 2015 2020 2025
 Leu Leu Asp His Phe Ala Asn Arg Asp Ile Thr Asp His Met Asp
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 Arg Leu Pro Arg Asp Val Ala Arg Asp Arg Met His His Asp Ile
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 Val Arg Leu Leu Asp Glu Tyr Asn Val Thr Pro Ser Pro Pro Gly

39467A.txt.txt

2060

2065

2070

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 2270 2275 2280
 Pro Gln Ser Arg Pro Pro Glu Gly Lys His Ile Thr Thr Pro Arg
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 2300 2305 2310
 Ser Ile Ala Gln Pro Ala Gly Ala Pro Gln Pro Gln Ser Thr Cys

39467A.txt.txt

2315

2320

2325

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Glu Met Ala Arg Leu Pro Ser Val Ala Phe Pro Thr Ala Met Met
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Pro Gln Gln Asp Gly Gln Val Ala Gln Thr Ile Leu Pro Ala Tyr
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His Pro Phe Pro Ala Ser Val Gly Lys Tyr Pro Thr Pro Pro Ser
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Gln His Ser Tyr Ala Ser Ser Asn Ala Ala Glu Arg Thr Pro Ser
 2390 2395 2400

His Ser Gly His Leu Gln Gly Glu His Pro Tyr Leu Thr Pro Ser
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Pro Glu Ser Pro Asp Gln Trp Ser Ser Ser Ser Pro His Ser Ala
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Ser Asp Trp Ser Asp Val Thr Thr Ser Pro Thr Pro Gly Gly Ala
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39467A.txt.txt

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39467A.txt.txt

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 50 55 60
 Cys Leu Cys Pro Pro Gly Trp Val Gly Glu Arg Cys Gln Leu Glu Asp
 65 70 75 80
 Pro Cys His Ser Gly Pro Cys Ala Gly Arg Gly Val Cys Gln Ser Ser
 85 90 95
 Val Val Ala Gly Thr Ala Arg Phe Ser Cys Arg Cys Pro Arg Gly Phe
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 Arg Gly Pro Asp Cys Ser Leu Pro Asp Pro Cys Leu Ser Ser Pro Cys
 115 120 125
 Ala His Gly Ala Arg Cys Ser Val Gly Pro Asp Gly Arg Phe Leu Cys
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 Ser Cys Pro Pro Gly Tyr Gln Gly Arg Ser Cys Arg Ser Asp Val Asp
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 Leu Cys Glu Asn Pro Ala Val Pro Cys Ala Pro Ser Pro Cys Arg Asn
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 Leu Pro Gly Phe Glu Gly Gln Asn Cys Glu Val Asn Val Asp Asp Cys
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 Thr Tyr Asn Cys Gln Cys Pro Pro Glu Trp Thr Gly Gln Phe Cys Thr
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Tyr Cys Ala Cys Pro Met Gly Lys Thr Gly Leu Leu Cys His Leu Asp
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Asp Ala Cys Val Ser Asn Pro Cys His Glu Asp Ala Ile Cys Asp Thr
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Asn Pro Val Asn Gly Arg Ala Ile Cys Thr Cys Pro Pro Gly Phe Thr
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39467A.txt.txt

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 Ala Ser Asn Pro Cys Thr Phe Gly Val Cys Arg Asp Gly Ile Asn Arg
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 Tyr Asp Cys Val Cys Gln Pro Gly Phe Thr Gly Pro Leu Cys Asn Val
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 Glu Ile Asn Glu Cys Ala Ser Ser Pro Cys Gly Glu Gly Gly Ser Cys
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 Val Asp Gly Glu Asn Gly Phe Arg Cys Leu Cys Pro Pro Gly Ser Leu
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 Glu Pro Gly Trp Ser Gly Pro Arg Cys Ser Gln Ser Leu Ala Arg Asp
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Ser Phe Ser Cys Leu Cys Arg Pro Gly Tyr Thr Gly Ala His Cys Gln
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His Glu Ala Asp Pro Cys Leu Ser Arg Pro Cys Leu His Gly Gly Val
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Cys Ser Ala Ala His Pro Gly Phe Arg Cys Thr Cys Leu Glu Ser Phe
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 Tyr Ala Arg Ala Asp Ala Ala Lys Arg Leu Leu Asp Ala Gly Ala
 1850 1855 1860

39467A.txt.txt

Asp Thr 1865 Asn Ala Gln Asp His 1870 Ser Gly Arg Thr Pro 1875 Leu His Thr
 Ala Val 1880 Thr Ala Asp Ala Gln 1885 Gly Val Phe Gln Ile 1890 Leu Ile Arg
 Asn Arg 1895 Ser Thr Asp Leu Asp 1900 Ala Arg Met Ala Asp 1905 Gly Ser Thr
 Ala Leu 1910 Ile Leu Ala Ala Arg 1915 Leu Ala Val Glu Gly 1920 Met Val Glu
 Glu Leu 1925 Ile Ala Ser His Ala 1930 Asp Val Asn Ala Val 1935 Asp Glu Leu
 Gly Lys 1940 Ser Ala Leu His Trp 1945 Ala Ala Ala Val Asn 1950 Asn Val Glu
 Ala Thr 1955 Leu Ala Leu Leu Lys 1960 Asn Gly Ala Asn Lys 1965 Asp Met Gln
 Asp Ser 1970 Lys Glu Glu Thr Pro 1975 Leu Phe Leu Ala Ala 1980 Arg Glu Gly
 Ser Tyr 1985 Glu Ala Ala Lys Leu 1990 Leu Leu Asp His Phe 1995 Ala Asn Arg
 Glu Ile 2000 Thr Asp His Leu Asp 2005 Arg Leu Pro Arg Asp 2010 Val Ala Gln
 Glu Arg 2015 Leu His Gln Asp Ile 2020 Val Arg Leu Leu Asp 2025 Gln Pro Ser
 Gly Pro 2030 Arg Ser Pro Pro Gly 2035 Pro His Gly Leu Gly 2040 Pro Leu Leu
 Cys Pro 2045 Pro Gly Ala Phe Leu 2050 Pro Gly Leu Lys Ala 2055 Ala Gln Ser
 Gly Ser 2060 Lys Lys Ser Arg Arg 2065 Pro Pro Gly Lys Ala 2070 Gly Leu Gly
 Pro Gln 2075 Gly Pro Arg Gly Arg 2080 Gly Lys Lys Leu Thr 2085 Leu Ala Cys
 Pro Gly 2090 Pro Leu Ala Asp Ser 2095 Ser Val Thr Leu Ser 2100 Pro Val Asp
 Ser Leu 2105 Asp Ser Pro Arg Pro 2110 Phe Gly Gly Pro Pro 2115 Ala Ser Pro

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Gly Gly Phe Pro Leu Gly Gly Pro Tyr Ala Ala Ala Thr Ala Thr
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 2135 2140 2145
 Gly Arg Gln Pro Pro Gly Gly Cys Val Leu Ser Leu Gly Leu Leu
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 Asn Pro Val Ala Val Pro Leu Asp Trp Ala Arg Leu Pro Pro Pro
 2165 2170 2175
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 2180 2185 2190
 Gln Leu Leu Asn Pro Gly Thr Pro Val Ser Pro Gln Glu Arg Pro
 2195 2200 2205
 Pro Pro Tyr Leu Ala Val Pro Gly His Gly Glu Glu Tyr Pro Val
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 2225 2230 2235
 Pro Ser Glu His Pro Tyr Leu Thr Pro Ser Pro Glu Ser Pro Glu
 2240 2245 2250
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 2270 2275 2280
 Thr Gly Ala Leu Pro Ala Gln Pro Leu Pro Leu Ser Val Pro Ser
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39467A.txt.txt

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39467A.txt.txt

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39467A.txt.txt

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<213> Homo sapiens

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<223> Notch-4

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<400> 21

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Val Ser Val Val Arg Pro Arg Gly Leu Leu Cys Gly Ser Phe Pro Glu
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```

```

Pro Cys Ala Asn Gly Gly Thr Cys Leu Ser Leu Ser Leu Gly Gln Gly
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```

```

Thr Cys Gln Cys Ala Pro Gly Phe Leu Gly Glu Thr Cys Gln Phe Pro
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```

```

Asp Pro Cys Gln Asn Ala Gln Leu Cys Gln Asn Gly Gly Ser Cys Gln
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```

```

Ala Leu Leu Pro Ala Pro Leu Gly Leu Pro Ser Ser Pro Ser Pro Leu
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```

```

Thr Pro Ser Phe Leu Cys Thr Cys Leu Pro Gly Phe Thr Gly Glu Arg
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```

Cys Gln Ala Lys Leu Glu Asp Pro Cys Pro Pro Ser Phe Cys Ser Lys
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39467A.txt.txt

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 Ala Asn Pro Cys Val Asn Gly Gly Val Cys Leu Ala Thr Tyr Pro Gln
 165 170 175
 Ile Gln Cys His Cys Pro Pro Gly Phe Glu Gly His Ala Cys Glu Arg
 180 185 190
 Asp Val Asn Glu Cys Phe Gln Asp Pro Gly Pro Cys Pro Lys Gly Thr
 195 200 205
 Ser Cys His Asn Thr Leu Gly Ser Phe Gln Cys Leu Cys Pro Val Gly
 210 215 220
 Gln Glu Gly Pro Arg Cys Glu Leu Arg Ala Gly Pro Cys Pro Pro Arg
 225 230 235 240
 Gly Cys Ser Asn Gly Gly Thr Cys Gln Leu Met Pro Glu Lys Asp Ser
 245 250 255
 Thr Phe His Leu Cys Leu Cys Pro Pro Gly Phe Ile Gly Pro Gly Cys
 260 265 270
 Glu Val Asn Pro Asp Asn Cys Val Ser His Gln Cys Gln Asn Gly Gly
 275 280 285
 Thr Cys Gln Asp Gly Leu Asp Thr Tyr Thr Cys Leu Cys Pro Glu Thr
 290 295 300
 Trp Thr Gly Trp Asp Cys Ser Glu Asp Val Asp Glu Cys Glu Ala Gln
 305 310 315 320
 Gly Pro Pro His Cys Arg Asn Gly Gly Thr Cys Gln Asn Ser Ala Gly
 325 330 335
 Ser Phe His Cys Val Cys Val Ser Gly Trp Gly Gly Thr Ser Cys Glu
 340 345 350
 Glu Asn Leu Asp Asp Cys Ile Ala Ala Thr Cys Ala Pro Gly Ser Thr
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 Cys Ile Asp Arg Val Gly Ser Phe Ser Cys Leu Cys Pro Pro Gly Arg
 370 375 380
 Thr Gly Leu Leu Cys His Leu Glu Asp Met Cys Leu Ser Gln Pro Cys
 385 390 395 400

39467A.txt.txt

His Gly Asp Ala Gln Cys Ser Thr Asn Pro Leu Thr Gly Ser Thr Leu
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 Cys Leu Cys Gln Pro Gly Tyr Ser Gly Pro Thr Cys His Gln Asp Leu
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 435 440 445
 Gly Ser Cys Leu Asn Thr Pro Gly Ser Phe Asn Cys Leu Cys Pro Pro
 450 455 460
 Gly Tyr Thr Gly Ser Arg Cys Glu Ala Asp His Asn Glu Cys Leu Ser
 465 470 475 480
 Gln Pro Cys His Pro Gly Ser Thr Cys Leu Asp Leu Leu Ala Thr Phe
 485 490 495
 His Cys Leu Cys Pro Pro Gly Leu Glu Gly Gln Leu Cys Glu Val Glu
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 Asp Leu Leu Asn Gly Phe Gln Cys Ile Cys Leu Pro Gly Phe Ser Gly
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 545 550 555 560
 Asn Gly Gly Gln Cys Gln Asp Gln Pro Gly Ala Phe His Cys Lys Cys
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 580 585 590
 Leu Ser Asp Pro Cys Pro Val Gly Ala Ser Cys Leu Asp Leu Pro Gly
 595 600 605
 Ala Phe Phe Cys Leu Cys Pro Ser Gly Phe Thr Gly Gln Leu Cys Glu
 610 615 620
 Val Pro Leu Cys Ala Pro Asn Leu Cys Gln Pro Lys Gln Ile Cys Lys
 625 630 635 640
 Asp Gln Lys Asp Lys Ala Asn Cys Leu Cys Pro Asp Gly Ser Pro Gly
 645 650 655
 Cys Ala Pro Pro Glu Asp Asn Cys Thr Cys His His Gly His Cys Gln
 660 665 670

39467A.txt.txt

Arg Ser Ser Cys Val Cys Asp Val Gly Trp Thr Gly Pro Glu Cys Glu
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 Ala Glu Leu Gly Gly Cys Ile Ser Ala Pro Cys Ala His Gly Gly Thr
 690 695 700
 Cys Tyr Pro Gln Pro Ser Gly Tyr Asn Cys Thr Cys Pro Thr Gly Tyr
 705 710 715 720
 Thr Gly Pro Thr Cys Ser Glu Glu Met Thr Ala Cys His Ser Gly Pro
 725 730 735
 Cys Leu Asn Gly Gly Ser Cys Asn Pro Ser Pro Gly Gly Tyr Tyr Cys
 740 745 750
 Thr Cys Pro Pro Ser His Thr Gly Pro Gln Cys Gln Thr Ser Thr Asp
 755 760 765
 Tyr Cys Val Ser Ala Pro Cys Phe Asn Gly Gly Thr Cys Val Asn Arg
 770 775 780
 Pro Gly Thr Phe Ser Cys Leu Cys Ala Met Gly Phe Gln Gly Pro Arg
 785 790 795 800
 Cys Glu Gly Lys Leu Arg Pro Ser Cys Ala Asp Ser Pro Cys Arg Asn
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 Arg Ala Thr Cys Gln Asp Ser Pro Gln Gly Pro Arg Cys Leu Cys Pro
 820 825 830
 Thr Gly Tyr Thr Gly Gly Ser Cys Gln Thr Leu Met Asp Leu Cys Ala
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 Gln Lys Pro Cys Pro Arg Asn Ser His Cys Leu Gln Thr Gly Pro Ser
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 865 870 875 880
 Pro Leu Ser Ser Cys Gln Lys Ala Ala Leu Ser Gln Gly Ile Asp Val
 885 890 895
 Ser Ser Leu Cys His Asn Gly Gly Leu Cys Val Asp Ser Gly Pro Ser
 900 905 910
 Tyr Phe Cys His Cys Pro Pro Gly Phe Gln Gly Ser Leu Cys Gln Asp
 915 920 925
 His Val Asn Pro Cys Glu Ser Arg Pro Cys Gln Asn Gly Ala Thr Cys
 930 935 940

39467A.txt.txt

Met Ala Gln Pro Ser Gly Tyr Leu Cys Gln Cys Ala Pro Gly Tyr Asp
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 Gly Gln Asn Cys Ser Lys Glu Leu Asp Ala Cys Gln Ser Gln Pro Cys
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 His Asn His Gly Thr Cys Thr Pro Lys Pro Gly Gly Phe His Cys Ala
 980 985 990
 Cys Pro Pro Gly Phe Val Gly Leu Arg Cys Glu Gly Asp Val Asp Glu
 995 1000 1005
 Cys Leu Asp Gln Pro Cys His Pro Thr Gly Thr Ala Ala Cys His
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 Ser Leu Ala Asn Ala Phe Tyr Cys Gln Cys Leu Pro Gly His Thr
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 Ser His Arg Ala Pro Ser Cys Gly Phe His His Cys His His Gly
 1085 1090 1095
 Gly Leu Cys Leu Pro Ser Pro Lys Pro Gly Phe Pro Pro Arg Cys
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 Ala Cys Leu Ser Gly Tyr Gly Gly Pro Asp Cys Leu Thr Pro Pro
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 Ser Cys Ser Glu Thr Thr Gly Leu Gly Gly Pro Gly Phe Arg Cys
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39467A.txt.txt

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 Cys Trp Leu Leu Phe Arg Asp Gly Gln Cys His Pro Gln Cys Asp
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 1235 1240 1245
 Ala Cys Thr Pro Ala Tyr Asp Gln Tyr Cys His Asp His Phe His
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 1265 1270 1275
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 Pro Ser Leu Ala Leu Leu Val Val Leu Ser Pro Pro Ala Leu Asp
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 Gln Gln Leu Phe Ala Leu Ala Arg Val Leu Ser Leu Thr Leu Arg
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 Val Gly Leu Trp Val Arg Lys Asp Arg Asp Gly Arg Asp Met Val
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 1370 1375 1380
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 Arg Cys Pro Trp Asp Pro Gly Leu Leu Leu Arg Phe Leu Ala Ala
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 1445 1450 1455

39467A.txt.txt

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 Ala Met Leu Thr Pro Pro Gln Glu Ser Glu Met Glu Ala Pro Asp
 1565 1570 1575
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 1595 1600 1605
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 Cys Pro Gln Ala His Thr Val Gly Thr Gly Glu Thr Pro Leu His
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 1640 1645 1650
 Glu Ala Gly Ala Asn Pro Asn Gln Pro Asp Arg Ala Gly Arg Thr
 1655 1660 1665
 Pro Leu His Ala Ala Val Ala Ala Asp Ala Arg Glu Val Cys Gln
 1670 1675 1680
 Leu Leu Leu Arg Ser Arg Gln Thr Ala Val Asp Ala Arg Thr Glu
 1685 1690 1695
 Asp Gly Thr Thr Pro Leu Met Leu Ala Ala Arg Leu Ala Val Glu
 1700 1705 1710

39467A.txt.txt

Asp Leu Val Glu Glu Leu Ile Ala Ala Gln Ala Asp Val Gly Ala
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 Lys Asp Ala Gln Asp Asn Arg Glu Gln Thr Pro Leu Phe Leu Ala
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 Gly Ala Ala Arg Glu Leu Arg Asp Gln Ala Gly Leu Ala Pro Ala
 1790 1795 1800
 Asp Val Ala His Gln Arg Asn His Trp Asp Leu Leu Thr Leu Leu
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 Glu Gly Ala Gly Pro Pro Glu Ala Arg His Lys Ala Thr Pro Gly
 1820 1825 1830
 Arg Glu Ala Gly Pro Phe Pro Arg Ala Arg Thr Val Ser Val Ser
 1835 1840 1845
 Val Pro Pro His Gly Gly Gly Ala Leu Pro Arg Cys Arg Thr Leu
 1850 1855 1860
 Ser Ala Gly Ala Gly Pro Arg Gly Gly Gly Ala Cys Leu Gln Ala
 1865 1870 1875
 Arg Thr Trp Ser Val Asp Leu Ala Ala Arg Gly Gly Gly Ala Tyr
 1880 1885 1890
 Ser His Cys Arg Ser Leu Ser Gly Val Gly Ala Gly Gly Gly Pro
 1895 1900 1905
 Thr Pro Arg Gly Arg Arg Phe Ser Ala Gly Met Arg Gly Pro Arg
 1910 1915 1920
 Pro Asn Pro Ala Ile Met Arg Gly Arg Tyr Gly Val Ala Ala Gly
 1925 1930 1935
 Arg Gly Gly Arg Val Ser Thr Asp Asp Trp Pro Cys Asp Trp Val
 1940 1945 1950
 Ala Leu Gly Ala Cys Gly Ser Ala Ser Asn Ile Pro Ile Pro Pro
 1955 1960 1965

39467A.txt.txt

Pro Cys Leu Thr Pro Ser Pro Glu Arg Gly Ser Pro Gln Leu Asp
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Cys Gly Pro Pro Ala Leu Gln Glu Met Pro Ile Asn Gln Gly Gly
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Glu Gly Lys Lys
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Leu Gln Asn Gly Asn Cys Cys Gly Gly Ala Arg Asn Pro Gly Asp Arg
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Lys Cys Thr Arg Asp Glu Cys Asp Thr Tyr Phe Lys Val Cys Leu Lys
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Glu Tyr Gln Ser Arg Val Thr Ala Gly Gly Pro Cys Ser Phe Gly Ser
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Gly Ser Thr Pro Val Ile Gly Gly Asn Thr Phe Asn Leu Lys Ala Ser
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Arg Gly Asn Asp Arg Asn Arg Ile Val Leu Pro Phe Ser Phe Ala Trp
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Pro Arg Ser Tyr Thr Leu Leu Val Glu Ala Trp Asp Ser Ser Asn Asp
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Thr Val Gln Pro Asp Ser Ile Ile Glu Lys Ala Ser His Ser Gly Met

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155

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 Gly Phe Gly Cys Asn Lys Phe Cys Arg Pro Arg Asp Asp Phe Phe Gly
 195 200 205
 His Tyr Ala Cys Asp Gln Asn Gly Asn Lys Thr Cys Met Glu Gly Trp
 210 215 220
 Met Gly Pro Glu Cys Asn Arg Ala Ile Cys Arg Gln Gly Cys Ser Pro
 225 230 235 240
 Lys His Gly Ser Cys Lys Leu Pro Gly Asp Cys Arg Cys Gln Tyr Gly
 245 250 255
 Trp Gln Gly Leu Tyr Cys Asp Lys Cys Ile Pro His Pro Gly Cys Val
 260 265 270
 His Gly Ile Cys Asn Glu Pro Trp Gln Cys Leu Cys Glu Thr Asn Trp
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 Glu Thr Ser Leu Gly Phe Glu Cys Glu Cys Ser Pro Gly Trp Thr Gly
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 385 390 395 400
 Pro Pro Gln Trp Thr Gly Lys Thr Cys Gln Leu Asp Ala Asn Glu Cys
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39467A.txt.txt
425

420

430

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 Ser Gly Gly Lys Phe Thr Cys Asp Cys Asn Lys Gly Phe Thr Gly Thr
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 675 680 685
 Phe Tyr Cys Asp Cys Lys Asn Gly Trp Lys Gly Lys Thr Cys His Ser

39467A.txt.txt
700

690

695

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Tyr Asp Glu Gly Asp Ala Phe Lys Cys Met Cys Pro Gly Gly Trp Glu
725 730 735

Gly Thr Thr Cys Asn Ile Ala Arg Asn Ser Ser Cys Leu Pro Asn Pro
740 745 750

Cys His Asn Gly Gly Thr Cys Val Val Asn Gly Glu Ser Phe Thr Cys
755 760 765

Val Cys Lys Glu Gly Trp Glu Gly Pro Ile Cys Ala Gln Asn Thr Asn
770 775 780

Asp Cys Ser Pro His Pro Cys Tyr Asn Ser Gly Thr Cys Val Asp Gly
785 790 795 800

Asp Asn Trp Tyr Arg Cys Glu Cys Ala Pro Gly Phe Ala Gly Pro Asp
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820 825 830

Ala Thr Cys Val Asp Glu Ile Asn Gly Tyr Arg Cys Val Cys Pro Pro
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Gly His Ser Gly Ala Lys Cys Gln Glu Val Ser Gly Arg Pro Cys Ile
850 855 860

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Ser Gly Gln Ser Cys Ile Pro Ile Leu Asp Asp Gln Cys Phe Val His
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Pro Cys Thr Gly Val Gly Glu Cys Arg Ser Ser Ser Leu Gln Pro Val
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Lys Thr Lys Cys Thr Ser Asp Ser Tyr Tyr Gln Asp Asn Cys Ala Asn
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Ile Thr Phe Thr Phe Asn Lys Glu Met Met Ser Pro Gly Leu Thr Thr

39467A.txt.txt
970

965

975

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Asp Gly Asn Pro Ile Lys Glu Ile Thr Asp Lys Ile Ile Asp Leu
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Val Ser Lys Arg Asp Gly Asn Ser Ser Leu Ile Ala Ala Val Ala
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Cys Leu Val Thr Ala Phe Tyr Trp Cys Leu Arg Lys Arg Arg Lys
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Pro Gly Ser His Thr His Ser Ala Ser Glu Asp Asn Thr Thr Asn
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39467A.txt.txt

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 Val Leu Gly Gly Asn Ser Phe Tyr Leu Pro Pro Ala Gly Ala Ala Gly
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 Arg Trp Lys Ser Leu His Phe Ser Gly His Val Ala His Leu Glu Leu
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 Gln Ile Arg Val Arg Cys Asp Glu Asn Tyr Tyr Ser Ala Thr Cys Asn
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 Lys Phe Cys Arg Pro Arg Asn Asp Phe Phe Gly His Tyr Thr Cys Asp
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 Gln Tyr Gly Asn Lys Ala Cys Met Asp Gly Trp Met Gly Lys Glu Cys
 225 230 235 240
 Lys Glu Ala Val Cys Lys Gln Gly Cys Asn Leu Leu His Gly Gly Cys
 245 250 255
 Thr Val Pro Gly Glu Cys Arg Cys Ser Tyr Gly Trp Gln Gly Arg Phe
 260 265 270
 Cys Asp Glu Cys Val Pro Tyr Pro Gly Cys Val His Gly Ser Cys Val
 275 280 285
 Glu Pro Trp Gln Cys Asn Cys Glu Thr Asn Trp Gly Gly Leu Leu Cys
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 Asp Lys Asp Leu Asn Tyr Cys Gly Ser His His Pro Cys Thr Asn Gly
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39467A.txt.txt

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 355 360 365
 Phe Glu Cys His Cys Pro Ser Gly Trp Ser Gly Pro Thr Cys Ala Leu
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 Asp Ile Asp Glu Cys Ala Ser Asn Pro Cys Ala Ala Gly Gly Thr Cys
 385 390 395 400
 Val Asp Gln Val Asp Gly Phe Glu Cys Ile Cys Pro Glu Gln Trp Val
 405 410 415
 Gly Ala Thr Cys Gln Leu Asp Ala Asn Glu Cys Glu Gly Lys Pro Cys
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 450 455 460
 Cys Arg Gly Gln Cys Gln His Gly Gly Thr Cys Lys Asp Leu Val Asn
 465 470 475 480
 Gly Tyr Gln Cys Val Cys Pro Arg Gly Phe Gly Gly Arg His Cys Glu
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39467A.txt.txt

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 625 630 635 640
 Leu Gly Gln Pro Cys Arg Asn Gly Gly Thr Cys Ile Asp Glu Val Asp
 645 650 655
 Ala Phe Arg Cys Phe Cys Pro Ser Gly Trp Glu Gly Glu Leu Cys Asp
 660 665 670
 Thr Asn Pro Asn Asp Cys Leu Pro Asp Pro Cys His Ser Arg Gly Arg
 675 680 685
 Cys Tyr Asp Leu Val Asn Asp Phe Tyr Cys Ala Cys Asp Asp Gly Trp
 690 695 700
 Lys Gly Lys Thr Cys His Ser Arg Glu Phe Gln Cys Asp Ala Tyr Thr
 705 710 715 720
 Cys Ser Asn Gly Gly Thr Cys Tyr Asp Ser Gly Asp Thr Phe Arg Cys
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 Ala Cys Pro Pro Gly Trp Lys Gly Ser Thr Cys Ala Val Ala Lys Asn
 740 745 750
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 755 760 765
 Ser Gly Ala Ser Phe Ser Cys Ile Cys Arg Asp Gly Trp Glu Gly Arg
 770 775 780
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 Pro Gly Phe Ala Gly Pro Asp Cys Arg Ile Asn Ile Asp Glu Cys Gln
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 835 840 845
 Tyr Arg Cys Ser Cys Pro Pro Gly Arg Ala Gly Pro Arg Cys Gln Glu
 850 855 860

39467A.txt.txt

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 915 920 925
 Arg Cys Leu Glu Lys Ala Pro Gly Gln Cys Leu Arg Pro Pro Cys Glu
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 Phe Asn Arg Asp His Val Pro Gln Gly Thr Thr Val Gly Ala Ile Cys
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39467A.txt.txt

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1145 1150 1155

Arg Arg Ala Asp Glu Ala Leu Pro Gly Pro Ala Gly His Ala Ala
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Asp Pro Gly Arg Ser Pro Gly Arg Pro Ala His Trp Ala Ser Gly
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Lys Val Thr Pro Thr Gly Pro Cys Ser Tyr Gly His Gly Ala Thr Pro
 85 90 95

Val Leu Gly Gly Asn Ser Phe Tyr Leu Pro Pro Ala Gly Ala Ala Gly
 100 105 110

Asp Arg Ala Arg Ala Arg Ala Arg Ala Gly Gly Asp Gln Asp Pro Gly
 115 120 125

Leu Val Val Ile Pro Phe Gln Phe Ala Trp Pro Arg Ser Phe Thr Leu
 130 135 140

Ile Val Glu Ala Trp Asp Trp Asp Asn Asp Thr Thr Pro Asn Glu Glu
 145 150 155 160

Leu Leu Ile Glu Arg Val Ser His Ala Gly Met Ile Asn Pro Glu Asp
 165 170 175

Arg Trp Lys Ser Leu His Phe Ser Gly His Val Ala His Leu Glu Leu
 180 185 190

Gln Ile Arg Val Arg Cys Asp Glu Asn Tyr Tyr Ser Ala Thr Cys Asn

39467A.txt.txt

195

200

205

Lys Phe Cys Arg Pro Arg Asn Asp Phe Phe Gly His Tyr Thr Cys Asp
 210 215 220
 Gln Tyr Gly Asn Lys Ala Cys Met Asp Gly Trp Met Gly Lys Glu Cys
 225 230 235 240
 Lys Glu Ala Val Cys Lys Gln Gly Cys Asn Leu Leu His Gly Gly Cys
 245 250 255
 Thr Val Pro Gly Glu Cys Arg Cys Ser Tyr Gly Trp Gln Gly Arg Phe
 260 265 270
 Cys Asp Glu Cys Val Pro Tyr Pro Gly Cys Val His Gly Ser Cys Val
 275 280 285
 Glu Pro Trp Gln Cys Asn Cys Glu Thr Asn Trp Gly Gly Leu Leu Cys
 290 295 300
 Asp Lys Asp Leu Asn Tyr Cys Gly Ser His His Pro Cys Thr Asn Gly
 305 310 315 320
 Gly Thr Cys Ile Asn Ala Glu Pro Asp Gln Tyr Arg Cys Thr Cys Pro
 325 330 335
 Asp Gly Tyr Ser Gly Arg Asn Cys Glu Lys Ala Glu His Ala Cys Thr
 340 345 350
 Ser Asn Pro Cys Ala Asn Gly Gly Ser Cys His Glu Val Pro Ser Gly
 355 360 365
 Phe Glu Cys His Cys Pro Ser Gly Trp Ser Gly Pro Thr Cys Ala Leu
 370 375 380
 Asp Ile Asp Glu Cys Ala Ser Asn Pro Cys Ala Ala Gly Gly Thr Cys
 385 390 395 400
 Val Asp Gln Val Asp Gly Phe Glu Cys Ile Cys Pro Glu Gln Trp Val
 405 410 415
 Gly Ala Thr Cys Gln Leu Asp Val Asn Asp Cys Arg Gly Gln Cys Gln
 420 425 430
 His Gly Gly Thr Cys Lys Asp Leu Val Asn Gly Tyr Gln Cys Val Cys
 435 440 445
 Pro Arg Gly Phe Gly Gly Arg His Cys Glu Leu Glu Arg Asp Glu Cys
 450 455 460
 Ala Ser Ser Pro Cys His Ser Gly Gly Leu Cys Glu Asp Leu Ala Asp

475

115/166

39467A.txt.txt
745

740

750

Asn Asp Cys Asn Pro Leu Pro Cys Tyr Asn Gly Gly Ile Cys Val Asp
755 760 765

Gly Val Asn Trp Phe Arg Cys Glu Cys Ala Pro Gly Phe Ala Gly Pro
770 775 780

Asp Cys Arg Ile Asn Ile Asp Glu Cys Gln Ser Ser Pro Cys Ala Tyr
785 790 795 800

Gly Ala Thr Cys Val Asp Glu Ile Asn Gly Tyr Arg Cys Ser Cys Pro
805 810 815

Pro Gly Arg Ala Gly Pro Arg Cys Gln Glu Val Ile Gly Phe Gly Arg
820 825 830

Ser Cys Trp Ser Arg Gly Thr Pro Phe Pro His Gly Ser Ser Trp Val
835 840 845

Glu Asp Cys Asn Ser Cys Arg Cys Leu Asp Gly Arg Arg Asp Cys Ser
850 855 860

Lys Val Trp Cys Gly Trp Lys Pro Cys Leu Leu Ala Gly Gln Pro Glu
865 870 875 880

Ala Leu Ser Ala Gln Cys Pro Leu Gly Gln Arg Cys Leu Glu Lys Ala
885 890 895

Pro Gly Gln Cys Leu Arg Pro Pro Cys Glu Ala Trp Gly Glu Cys Gly
900 905 910

Ala Glu Glu Pro Pro Ser Thr Pro Cys Leu Pro Arg Ser Gly His Leu
915 920 925

Asp Asn Asn Cys Ala Arg Leu Thr Leu His Phe Asn Arg Asp His Val
930 935 940

Pro Gln Gly Thr Thr Val Gly Ala Ile Cys Ser Gly Ile Arg Ser Leu
945 950 955 960

Pro Ala Thr Arg Ala Val Ala Arg Asp Arg Leu Leu Val Leu Leu Cys
965 970 975

Asp Arg Ala Ser Ser Gly Ala Ser Ala Val Glu Val Ala Val Ser Phe
980 985 990

Ser Pro Ala Arg Asp Leu Pro Asp Ser Ser Leu Ile Gln Gly Ala Ala
995 1000 1005

His Ala Ile Val Ala Ala Ile Thr Gln Arg Gly Asn Ser Ser Leu

39467A.txt.txt

1010

1015

1020

Leu Leu Ala Val Thr Glu Val Lys Val Glu Thr Val Val Thr Gly
 1025 1030 1035

Gly Ser Ser Thr Gly Leu Leu Val Pro Val Leu Cys Gly Ala Phe
 1040 1045 1050

Ser Val Leu Trp Leu Ala Cys Val Val Leu Cys Val Trp Trp Thr
 1055 1060 1065

Arg Lys Arg Arg Lys Glu Arg Glu Arg Ser Arg Leu Pro Arg Glu
 1070 1075 1080

Glu Ser Ala Asn Asn Gln Trp Ala Pro Leu Asn Pro Ile Arg Asn
 1085 1090 1095

Pro Ile Glu Arg Pro Gly Gly His Lys Asp Val Leu Tyr Gln Cys
 1100 1105 1110

Lys Asn Phe Thr Pro Pro Pro Arg Arg Ala Asp Glu Ala Leu Pro
 1115 1120 1125

Gly Pro Ala Gly His Ala Ala Val Arg Glu Asp Glu Glu Asp Glu
 1130 1135 1140

Asp Leu Gly Arg Gly Glu Glu Asp Ser Leu Glu Ala Glu Lys Phe
 1145 1150 1155

Leu Ser His Lys Phe Thr Lys Asp Pro Gly Arg Ser Pro Gly Arg
 1160 1165 1170

Pro Ala His Trp Ala Ser Gly Pro Lys Val Asp Asn Arg Ala Val
 1175 1180 1185

Arg Ser Ile Asn Glu Ala Arg Tyr Ala Gly Lys Glu
 1190 1195 1200

<210> 28
 <211> 3158
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Delta like 1 (Notch ligand)

<400> 28
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 tcccagaggtt gcctttcctc gggcatcctt ggtttcggcg ggacttcgca gggcggatat 120
 aaagaacggc gcctttggga agaggcggag accggcttta aagaaagaag tcttggtcct 180

39467A.txt.txt

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cgcggtggagc	gaagcagcat	gggcagtcgg	tgcgcgctgg	ccctggcggt	gctctcggcc	360
ttgctgtgtc	aggtctggag	ctctgggggtg	ttcgaactga	agctgcagga	gttcgtcaac	420
aagaaggggc	tgctggggaa	ccgcaactgc	tgccgcgggg	gcgcggggcc	accgccgtgc	480
gcctgccgga	ccttcttccg	cgtgtgcctc	aagcactacc	agggcagcgt	gtcccccgag	540
ccgccctgca	cctacggcag	cgccgtcacc	cccgtgctgg	gcgtcgactc	cttcagtctg	600
cccgaaggcg	ggggcgccga	ctccgcgttc	agcaacccca	tccgcttccc	cttcggcttc	660
acctggccgg	gcaccttctc	tctgattatt	gaagctctcc	acacagattc	tcctgatgac	720
ctcgcaacag	aaaaccaga	aagactcatc	agccgcctgg	ccacccagag	gcacctgacg	780
gtgggcgagg	agtgggtcca	ggacctgcac	agcagcggcc	gcacggacct	caagtactcc	840
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aactgccagg	aaggctgggg	gggccttttc	tgcaaccagg	acctgaacta	ctgcacacac	1200
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gtcctcatgc	tgctgctggg	ctgtgccgct	gtggtggtct	gcgtccggct	gaggctgcag	2040
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aactgccagc	gtgagaagga	catctcagtc	agcatcatcg	gggccacgca	gatcaagaac	2160
accaacaaga	aggcgggactt	ccacggggac	cacagcgccg	acaagaatgg	cttcaaggcc	2220

39467A.txt.txt

cgctaccag cggtggacta taacctcgtg caggacctca aggggtgacga caccgccgtc 2280
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 aaggggaccc cgaccacact caggggtgga gaagcatctg aaagaaaaag gccggactcg 2400
 ggctgttcaa cttcaaaaga caccaagtac cagtcggtgt acgtcataatc cgaggagaag 2460
 gatgagtgcg tcatagcaac tgagggtgtaa aatggaagtg agatggcaag actcccgttt 2520
 ctcttaaaat aagtaaaatt ccaaggatat atgcccacac gaatgctgct gaagaggagg 2580
 gaggcctcgt ggactgctgc tgagaaaccg agttcagacc gagcaggttc tcctcctgag 2640
 gtcctcgacg cctgccgaca gcctgtcgcg gcccggccgc ctgcggcact gccttccgtg 2700
 acgtcgccgt tgcactatgg acagttgctc ttaagagaat atatatttaa atgggtgaac 2760
 tgaattacgc ctaagaagca tgcactgcct gagtgtatat tttggattct tatgagccag 2820
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<210> 29
 <211> 723
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Delta like 1 (Notch ligand)

<400> 29

Met Gly Ser Arg Cys Ala Leu Ala Leu Ala Val Leu Ser Ala Leu Leu
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Cys Gln Val Trp Ser Ser Gly Val Phe Glu Leu Lys Leu Gln Glu Phe
20 25 30

Val Asn Lys Lys Gly Leu Leu Gly Asn Arg Asn Cys Cys Arg Gly Gly
35 40 45

Ala Gly Pro Pro Pro Cys Ala Cys Arg Thr Phe Phe Arg Val Cys Leu
50 55 60

Lys His Tyr Gln Ala Ser Val Ser Pro Glu Pro Pro Cys Thr Tyr Gly
65 70 75 80

Ser Ala Val Thr Pro Val Leu Gly Val Asp Ser Phe Ser Leu Pro Asp
85 90 95

39467A.txt.txt

Gly Gly Gly Ala Asp Ser Ala Phe Ser Asn Pro Ile Arg Phe Pro Phe
 100 105 110

Gly Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu Ala Leu His
 115 120 125

Thr Asp Ser Pro Asp Asp Leu Ala Thr Glu Asn Pro Glu Arg Leu Ile
 130 135 140

Ser Arg Leu Ala Thr Gln Arg His Leu Thr Val Gly Glu Glu Trp Ser
 145 150 155 160

Gln Asp Leu His Ser Ser Gly Arg Thr Asp Leu Lys Tyr Ser Tyr Arg
 165 170 175

Phe Val Cys Asp Glu His Tyr Tyr Gly Glu Gly Cys Ser Val Phe Cys
 180 185 190

Arg Pro Arg Asp Asp Ala Phe Gly His Phe Thr Cys Gly Glu Arg Gly
 195 200 205

Glu Lys Val Cys Asn Pro Gly Trp Lys Gly Pro Tyr Cys Thr Glu Pro
 210 215 220

Ile Cys Leu Pro Gly Cys Asp Glu Gln His Gly Phe Cys Asp Lys Pro
 225 230 235 240

Gly Glu Cys Lys Cys Arg Val Gly Trp Gln Gly Arg Tyr Cys Asp Glu
 245 250 255

Cys Ile Arg Tyr Pro Gly Cys Leu His Gly Thr Cys Gln Gln Pro Trp
 260 265 270

Gln Cys Asn Cys Gln Glu Gly Trp Gly Gly Leu Phe Cys Asn Gln Asp
 275 280 285

Leu Asn Tyr Cys Thr His His Lys Pro Cys Lys Asn Gly Ala Thr Cys
 290 295 300

Thr Asn Thr Gly Gln Gly Ser Tyr Thr Cys Ser Cys Arg Pro Gly Tyr
 305 310 315 320

Thr Gly Ala Thr Cys Glu Leu Gly Ile Asp Glu Cys Asp Pro Ser Pro
 325 330 335

Cys Lys Asn Gly Gly Ser Cys Thr Asp Leu Glu Asn Ser Tyr Ser Cys
 340 345 350

Thr Cys Pro Pro Gly Phe Tyr Gly Lys Ile Cys Glu Leu Ser Ala Met
 355 360 365

39467A.txt.txt

Thr Cys Ala Asp Gly Pro Cys Phe Asn Gly Gly Arg Cys Ser Asp Ser
 370 375 380
 Pro Asp Gly Gly Tyr Ser Cys Arg Cys Pro Val Gly Tyr Ser Gly Phe
 385 390 395 400
 Asn Cys Glu Lys Lys Ile Asp Tyr Cys Ser Ser Ser Pro Cys Ser Asn
 405 410 415
 Gly Ala Lys Cys Val Asp Leu Gly Asp Ala Tyr Leu Cys Arg Cys Gln
 420 425 430
 Ala Gly Phe Ser Gly Arg His Cys Asp Asp Asn Val Asp Asp Cys Ala
 435 440 445
 Ser Ser Pro Cys Ala Asn Gly Gly Thr Cys Arg Asp Gly Val Asn Asp
 450 455 460
 Phe Ser Cys Thr Cys Pro Pro Gly Tyr Thr Gly Arg Asn Cys Ser Ala
 465 470 475 480
 Pro Val Ser Arg Cys Glu His Ala Pro Cys His Asn Gly Ala Thr Cys
 485 490 495
 His Gln Arg Gly His Gly Tyr Val Cys Glu Cys Ala Arg Ser Tyr Gly
 500 505 510
 Gly Pro Asn Cys Gln Phe Leu Leu Pro Glu Leu Pro Pro Gly Pro Ala
 515 520 525
 Val Val Asp Leu Thr Glu Lys Leu Glu Gly Gln Gly Gly Pro Phe Pro
 530 535 540
 Trp Val Ala Val Cys Ala Gly Val Ile Leu Val Leu Met Leu Leu Leu
 545 550 555 560
 Gly Cys Ala Ala Val Val Val Cys Val Arg Leu Arg Leu Gln Lys His
 565 570 575
 Arg Pro Pro Ala Asp Pro Cys Arg Gly Glu Thr Glu Thr Met Asn Asn
 580 585 590
 Leu Ala Asn Cys Gln Arg Glu Lys Asp Ile Ser Val Ser Ile Ile Gly
 595 600 605
 Ala Thr Gln Ile Lys Asn Thr Asn Lys Lys Ala Asp Phe His Gly Asp
 610 615 620
 His Ser Ala Asp Lys Asn Gly Phe Lys Ala Arg Tyr Pro Ala Val Asp
 625 630 635 640

39467A.txt.txt

Tyr Asn Leu Val Gln Asp Leu Lys Gly Asp Asp Thr Ala Val Arg Asp
645 650 655

Ala His Ser Lys Arg Asp Thr Lys Cys Gln Pro Gln Gly Ser Ser Gly
660 665 670

Glu Glu Lys Gly Thr Pro Thr Thr Leu Arg Gly Gly Glu Ala Ser Glu
675 680 685

Arg Lys Arg Pro Asp Ser Gly Cys Ser Thr Ser Lys Asp Thr Lys Tyr
690 695 700

Gln Ser Val Tyr Val Ile Ser Glu Glu Lys Asp Glu Cys Val Ile Ala
705 710 715 720

Thr Glu Val

<210> 30
<211> 1971
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Delta like 3 (Notch ligand)

<400> 30
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gccgggtcca ggccctgggg ccccgcggtc cccctgcagc gcccggtcc cctgccgcct 180
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gcctgatctc ccaactgccc acgggctctt gcagggtgcc ttccgggacg cctggcctgg 360
caccttctct ttcacatcgc aaacctggag agaggagtta ggagaccaga ttggaggggc 420
cgcctggagc ctgctggcgc gcgtggctgg caggcggcgc ttggcagccg gaggcccgtg 480
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cagccccagg ggcccgtcct ctgctaccac cggatgcctt gtccctgggc ctgggcccctg 840
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cacctgcccg cgtgggttct acgggctgcg gtgtgaggtg agcggggtga catgtgcaga 960

39467A.txt.txt

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ctgccactgc ccacctggtt tccaaggctc caactgtgag aagaggggtg accggtgcag 1080
cctgcagcca tgccgcaatg gcggactctg cctggacctg ggccacgccc tgcgtgccg 1140
ctgccgcgcc ggcttcgcgg gtcctcgctg cgagcacgac ctggacgact gcgcggggccg 1200
cgcttgcgct aacggcgga cgtgtgtgga gggcgggcg gcgcaccgct gtcctgcgc 1260
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<210> 31
 <211> 618
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Delta like 3 (Notch ligand)

<400> 31

Met Val Ser Pro Arg Met Ser Gly Leu Leu Ser Gln Thr Val Ile Leu
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Ala Leu Ile Phe Leu Pro Gln Thr Arg Pro Ala Gly Val Phe Glu Leu
20 25 30

Gln Ile His Ser Phe Gly Pro Gly Pro Gly Pro Gly Ala Pro Arg Ser
35 40 45

Pro Cys Ser Ala Arg Leu Pro Cys Arg Leu Phe Phe Arg Val Cys Leu
50 55 60

Lys Pro Gly Leu Ser Glu Glu Ala Ala Glu Ser Pro Cys Ala Leu Gly
65 70 75 80

Ala Ala Leu Ser Ala Arg Gly Pro Val Tyr Thr Glu Gln Pro Gly Ala

39467A.txt.txt
90

85

95

Pro Ala Pro Asp Leu Pro Leu Pro Asp Gly Leu Leu Gln Val Pro Phe
100 105 110

Arg Asp Ala Trp Pro Gly Thr Phe Ser Phe Ile Ile Glu Thr Trp Arg
115 120 125

Glu Glu Leu Gly Asp Gln Ile Gly Gly Pro Ala Trp Ser Leu Leu Ala
130 135 140

Arg Val Ala Gly Arg Arg Arg Leu Ala Ala Gly Gly Pro Trp Ala Arg
145 150 155 160

Asp Ile Gln Arg Ala Gly Ala Trp Glu Leu Arg Phe Ser Tyr Arg Ala
165 170 175

Arg Cys Glu Pro Pro Ala Val Gly Thr Ala Cys Thr Arg Leu Cys Arg
180 185 190

Pro Arg Ser Ala Pro Ser Arg Cys Gly Pro Gly Leu Arg Pro Cys Ala
195 200 205

Pro Leu Glu Asp Glu Cys Glu Ala Pro Leu Val Cys Arg Ala Gly Cys
210 215 220

Ser Pro Glu His Gly Phe Cys Glu Gln Pro Gly Glu Cys Arg Cys Leu
225 230 235 240

Glu Gly Trp Thr Gly Pro Leu Cys Thr Val Pro Val Ser Thr Ser Ser
245 250 255

Cys Leu Ser Pro Arg Gly Pro Ser Ser Ala Thr Thr Gly Cys Leu Val
260 265 270

Pro Gly Pro Gly Pro Cys Asp Gly Asn Pro Cys Ala Asn Gly Gly Ser
275 280 285

Cys Ser Glu Thr Pro Arg Ser Phe Glu Cys Thr Cys Pro Arg Gly Phe
290 295 300

Tyr Gly Leu Arg Cys Glu Val Ser Gly Val Thr Cys Ala Asp Gly Pro
305 310 315 320

Cys Phe Asn Gly Gly Leu Cys Val Gly Gly Ala Asp Pro Asp Ser Ala
325 330 335

Tyr Ile Cys His Cys Pro Pro Gly Phe Gln Gly Ser Asn Cys Glu Lys
340 345 350

Arg Val Asp Arg Cys Ser Leu Gln Pro Cys Arg Asn Gly Gly Leu Cys

39467A.txt.txt

355

360

365

Leu Asp Leu Gly His Ala Leu Arg Cys Arg Cys Arg Ala Gly Phe Ala
 370 375 380

Gly Pro Arg Cys Glu His Asp Leu Asp Asp Cys Ala Gly Arg Ala Cys
 385 390 395 400

Ala Asn Gly Gly Thr Cys Val Glu Gly Gly Gly Ala His Arg Cys Ser
 405 410 415

Cys Ala Leu Gly Phe Gly Gly Arg Asp Cys Arg Glu Arg Ala Asp Pro
 420 425 430

Cys Ala Ala Arg Pro Cys Ala His Gly Gly Arg Cys Tyr Ala His Phe
 435 440 445

Ser Gly Leu Val Cys Ala Cys Ala Pro Gly Tyr Met Gly Ala Arg Cys
 450 455 460

Glu Phe Pro Val His Pro Asp Gly Ala Ser Ala Leu Pro Ala Ala Pro
 465 470 475 480

Pro Gly Leu Arg Pro Gly Asp Pro Gln Arg Tyr Leu Leu Pro Pro Ala
 485 490 495

Leu Gly Leu Leu Val Ala Ala Gly Val Ala Gly Ala Ala Leu Leu Leu
 500 505 510

Val His Val Arg Arg Arg Gly His Ser Gln Asp Ala Gly Ser Arg Leu
 515 520 525

Leu Ala Gly Thr Pro Glu Pro Ser Val His Ala Leu Pro Asp Ala Leu
 530 535 540

Asn Asn Leu Arg Thr Gln Glu Gly Ser Gly Asp Gly Pro Ser Ser Ser
 545 550 555 560

Val Asp Trp Asn Arg Pro Glu Asp Val Asp Pro Gln Gly Ile Tyr Val
 565 570 575

Ile Ser Ala Pro Ser Ile Tyr Ala Arg Glu Val Ala Thr Pro Leu Phe
 580 585 590

Pro Pro Leu His Thr Gly Arg Ala Gly Gln Arg Gln His Leu Leu Phe
 595 600 605

Pro Tyr Pro Ser Ser Ile Leu Ser Val Lys
 610 615

<210> 32

39467A.txt.txt

<211> 3383
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Delta like 4 (Notch ligand)

<400> 32
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ggtcgcgcgc cagccgtagt cacctggatt acctacagcg gcagctgcag cggagccagc 180
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39467A.txt.txt

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<220>
 <221> misc_feature
 <223> Delta like 4 (Notch ligand)

<400> 33

39467A.txt.txt

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 Gln Leu Gln Glu Phe Ile Asn Glu Arg Gly Val Leu Ala Ser Gly Arg
 35 40 45
 Pro Cys Glu Pro Gly Cys Arg Thr Phe Phe Arg Val Cys Leu Lys His
 50 55 60
 Phe Gln Ala Val Val Ser Pro Gly Pro Cys Thr Phe Gly Thr Val Ser
 65 70 75 80
 Thr Pro Val Leu Gly Thr Asn Ser Phe Ala Val Arg Asp Asp Ser Ser
 85 90 95
 Gly Gly Gly Arg Asn Pro Leu Gln Leu Pro Phe Asn Phe Thr Trp Pro
 100 105 110
 Gly Thr Phe Ser Leu Ile Ile Glu Ala Trp His Ala Pro Gly Asp Asp
 115 120 125
 Leu Arg Pro Glu Ala Leu Pro Pro Asp Ala Leu Ile Ser Lys Ile Ala
 130 135 140
 Ile Gln Gly Ser Leu Ala Val Gly Gln Asn Trp Leu Leu Asp Glu Gln
 145 150 155 160
 Thr Ser Thr Leu Thr Arg Leu Arg Tyr Ser Tyr Arg Val Ile Cys Ser
 165 170 175
 Asp Asn Tyr Tyr Gly Asp Asn Cys Ser Arg Leu Cys Lys Lys Arg Asn
 180 185 190
 Asp His Phe Gly His Tyr Val Cys Gln Pro Asp Gly Asn Leu Ser Cys
 195 200 205
 Leu Pro Gly Trp Thr Gly Glu Tyr Cys Gln Gln Pro Ile Cys Leu Ser
 210 215 220
 Gly Cys His Glu Gln Asn Gly Tyr Cys Ser Lys Pro Ala Glu Cys Leu
 225 230 235 240
 Cys Arg Pro Gly Trp Gln Gly Arg Leu Cys Asn Glu Cys Ile Pro His
 245 250 255
 Asn Gly Cys Arg His Gly Thr Cys Ser Thr Pro Trp Gln Cys Thr Cys
 260 265 270

39467A.txt.txt

Asp Glu Gly Trp Gly Gly Leu Phe Cys Asp Gln Asp Leu Asn Tyr Cys
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 Thr His His Ser Pro Cys Lys Asn Gly Ala Thr Cys Ser Asn Ser Gly
 290 295 300
 Gln Arg Ser Tyr Thr Cys Thr Cys Arg Pro Gly Tyr Thr Gly Val Asp
 305 310 315 320
 Cys Glu Leu Glu Leu Ser Glu Cys Asp Ser Asn Pro Cys Arg Asn Gly
 325 330 335
 Gly Ser Cys Lys Asp Gln Glu Asp Gly Tyr His Cys Leu Cys Pro Pro
 340 345 350
 Gly Tyr Tyr Gly Leu His Cys Glu His Ser Thr Leu Ser Cys Ala Asp
 355 360 365
 Ser Pro Cys Phe Asn Gly Gly Ser Cys Arg Glu Arg Asn Gln Gly Ala
 370 375 380
 Asn Tyr Ala Cys Glu Cys Pro Pro Asn Phe Thr Gly Ser Asn Cys Glu
 385 390 395 400
 Lys Lys Val Asp Arg Cys Thr Ser Asn Pro Cys Ala Asn Gly Gly Gln
 405 410 415
 Cys Leu Asn Arg Gly Pro Ser Arg Met Cys Arg Cys Arg Pro Gly Phe
 420 425 430
 Thr Gly Thr Tyr Cys Glu Leu His Val Ser Asp Cys Ala Arg Asn Pro
 435 440 445
 Cys Ala His Gly Gly Thr Cys His Asp Leu Glu Asn Gly Leu Met Cys
 450 455 460
 Thr Cys Pro Ala Gly Phe Ser Gly Arg Arg Cys Glu Val Arg Thr Ser
 465 470 475 480
 Ile Asp Ala Cys Ala Ser Ser Pro Cys Phe Asn Arg Ala Thr Cys Tyr
 485 490 495
 Thr Asp Leu Ser Thr Asp Thr Phe Val Cys Asn Cys Pro Tyr Gly Phe
 500 505 510
 Val Gly Ser Arg Cys Glu Phe Pro Val Gly Leu Pro Pro Ser Phe Pro
 515 520 525
 Trp Val Ala Val Ser Leu Gly Val Gly Leu Ala Val Leu Leu Val Leu
 530 535 540

39467A.txt.txt

Leu Gly Met Val Ala Val Ala Val Arg Gln Leu Arg Leu Arg Arg Pro
545 550 555 560

Asp Asp Gly Ser Arg Glu Ala Met Asn Asn Leu Ser Asp Phe Gln Lys
565 570 575

Asp Asn Leu Ile Pro Ala Ala Gln Leu Lys Asn Thr Asn Gln Lys Lys
580 585 590

Glu Leu Glu Val Asp Cys Gly Leu Asp Lys Ser Asn Cys Gly Lys Gln
595 600 605

Gln Asn His Thr Leu Asp Tyr Asn Leu Ala Pro Gly Pro Leu Gly Arg
610 615 620

Gly Thr Met Pro Gly Lys Phe Pro His Ser Asp Lys Ser Leu Gly Glu
625 630 635 640

Lys Ala Pro Leu Arg Leu His Ser Glu Lys Pro Glu Cys Arg Ile Ser
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Ala Ile Cys Ser Pro Arg Asp Ser Met Tyr Gln Ser Val Cys Leu Ile
660 665 670

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<211> 5077
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Jagged2, transcript variant 1

<400> 34
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39467A.txt.txt

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39467A.txt.txt

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39467A.txt.txt

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 <212> PRT
 <213> Homo sapiens

<220>
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 <223> Jagged2, transcript variant 1

<400> 35

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20 25 30

Gln Leu Ser Ala Leu Arg Asn Val Asn Gly Glu Leu Leu Ser Gly Ala
35 40 45

Cys Cys Asp Gly Asp Gly Arg Thr Thr Arg Ala Gly Gly Cys Gly His
50 55 60

Asp Glu Cys Asp Thr Tyr Val Arg Val Cys Leu Lys Glu Tyr Gln Ala
65 70 75 80

Lys Val Thr Pro Thr Gly Pro Cys Ser Tyr Gly His Gly Ala Thr Pro
85 90 95

Val Leu Gly Gly Asn Ser Phe Tyr Leu Pro Pro Ala Gly Ala Ala Gly
100 105 110

Asp Arg Ala Arg Ala Arg Ala Arg Ala Gly Gly Asp Gln Asp Pro Gly
115 120 125

Leu Val Val Ile Pro Phe Gln Phe Ala Trp Pro Arg Ser Phe Thr Leu
130 135 140

Ile Val Glu Ala Trp Asp Trp Asp Asn Asp Thr Thr Pro Asn Glu Glu
145 150 155 160

Leu Leu Ile Glu Arg Val Ser His Ala Gly Met Ile Asn Pro Glu Asp

39467A.txt.txt

165

170

175

Arg Trp Lys Ser Leu His Phe Ser Gly His Val Ala His Leu Glu Leu
 180 185 190

Gln Ile Arg Val Arg Cys Asp Glu Asn Tyr Tyr Ser Ala Thr Cys Asn
 195 200 205

Lys Phe Cys Arg Pro Arg Asn Asp Phe Phe Gly His Tyr Thr Cys Asp
 210 215 220

Gln Tyr Gly Asn Lys Ala Cys Met Asp Gly Trp Met Gly Lys Glu Cys
 225 230 235 240

Lys Glu Ala Val Cys Lys Gln Gly Cys Asn Leu Leu His Gly Gly Cys
 245 250 255

Thr Val Pro Gly Glu Cys Arg Cys Ser Tyr Gly Trp Gln Gly Arg Phe
 260 265 270

Cys Asp Glu Cys Val Pro Tyr Pro Gly Cys Val His Gly Ser Cys Val
 275 280 285

Glu Pro Trp Gln Cys Asn Cys Glu Thr Asn Trp Gly Gly Leu Leu Cys
 290 295 300

Asp Lys Asp Leu Asn Tyr Cys Gly Ser His His Pro Cys Thr Asn Gly
 305 310 315 320

Gly Thr Cys Ile Asn Ala Glu Pro Asp Gln Tyr Arg Cys Thr Cys Pro
 325 330 335

Asp Gly Tyr Ser Gly Arg Asn Cys Glu Lys Ala Glu His Ala Cys Thr
 340 345 350

Ser Asn Pro Cys Ala Asn Gly Gly Ser Cys His Glu Val Pro Ser Gly
 355 360 365

Phe Glu Cys His Cys Pro Ser Gly Trp Ser Gly Pro Thr Cys Ala Leu
 370 375 380

Asp Ile Asp Glu Cys Ala Ser Asn Pro Cys Ala Ala Gly Gly Thr Cys
 385 390 395 400

Val Asp Gln Val Asp Gly Phe Glu Cys Ile Cys Pro Glu Gln Trp Val
 405 410 415

Gly Ala Thr Cys Gln Leu Asp Ala Asn Glu Cys Glu Gly Lys Pro Cys
 420 425 430

Leu Asn Ala Phe Ser Cys Lys Asn Leu Ile Gly Gly Tyr Tyr Cys Asp

39467A.txt.txt

435

440

445

Cys Ile Pro Gly Trp Lys Gly Ile Asn Cys His Ile Asn Val Asn Asp
 450 455 460
 Cys Arg Gly Gln Cys Gln His Gly Gly Thr Cys Lys Asp Leu Val Asn
 465 470 475 480
 Gly Tyr Gln Cys Val Cys Pro Arg Gly Phe Gly Gly Arg His Cys Glu
 485 490 495
 Leu Glu Arg Asp Glu Cys Ala Ser Ser Pro Cys His Ser Gly Gly Leu
 500 505 510
 Cys Glu Asp Leu Ala Asp Gly Phe His Cys His Cys Pro Gln Gly Phe
 515 520 525
 Ser Gly Pro Leu Cys Glu Val Asp Val Asp Leu Cys Glu Pro Ser Pro
 530 535 540
 Cys Arg Asn Gly Ala Arg Cys Tyr Asn Leu Glu Gly Asp Tyr Tyr Cys
 545 550 555 560
 Ala Cys Pro Asp Asp Phe Gly Gly Lys Asn Cys Ser Val Pro Arg Glu
 565 570 575
 Pro Cys Pro Gly Gly Ala Cys Arg Val Ile Asp Gly Cys Gly Ser Asp
 580 585 590
 Ala Gly Pro Gly Met Pro Gly Thr Ala Ala Ser Gly Val Cys Gly Pro
 595 600 605
 His Gly Arg Cys Val Ser Gln Pro Gly Gly Asn Phe Ser Cys Ile Cys
 610 615 620
 Asp Ser Gly Phe Thr Gly Thr Tyr Cys His Glu Asn Ile Asp Asp Cys
 625 630 635 640
 Leu Gly Gln Pro Cys Arg Asn Gly Gly Thr Cys Ile Asp Glu Val Asp
 645 650 655
 Ala Phe Arg Cys Phe Cys Pro Ser Gly Trp Glu Gly Glu Leu Cys Asp
 660 665 670
 Thr Asn Pro Asn Asp Cys Leu Pro Asp Pro Cys His Ser Arg Gly Arg
 675 680 685
 Cys Tyr Asp Leu Val Asn Asp Phe Tyr Cys Ala Cys Asp Asp Gly Trp
 690 695 700
 Lys Gly Lys Thr Cys His Ser Arg Glu Phe Gln Cys Asp Ala Tyr Thr

39467A.txt.txt
715

705

710

720

Cys Ser Asn Gly Gly Thr Cys Tyr Asp Ser Gly Asp Thr Phe Arg Cys
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Ala Cys Pro Pro Gly Trp Lys Gly Ser Thr Cys Ala Val Ala Lys Asn
740 745 750

Ser Ser Cys Leu Pro Asn Pro Cys Val Asn Gly Gly Thr Cys Val Gly
755 760 765

Ser Gly Ala Ser Phe Ser Cys Ile Cys Arg Asp Gly Trp Glu Gly Arg
770 775 780

Thr Cys Thr His Asn Thr Asn Asp Cys Asn Pro Leu Pro Cys Tyr Asn
785 790 795 800

Gly Gly Ile Cys Val Asp Gly Val Asn Trp Phe Arg Cys Glu Cys Ala
805 810 815

Pro Gly Phe Ala Gly Pro Asp Cys Arg Ile Asn Ile Asp Glu Cys Gln
820 825 830

Ser Ser Pro Cys Ala Tyr Gly Ala Thr Cys Val Asp Glu Ile Asn Gly
835 840 845

Tyr Arg Cys Ser Cys Pro Pro Gly Arg Ala Gly Pro Arg Cys Gln Glu
850 855 860

Val Ile Gly Phe Gly Arg Ser Cys Trp Ser Arg Gly Thr Pro Phe Pro
865 870 875 880

His Gly Ser Ser Trp Val Glu Asp Cys Asn Ser Cys Arg Cys Leu Asp
885 890 895

Gly Arg Arg Asp Cys Ser Lys Val Trp Cys Gly Trp Lys Pro Cys Leu
900 905 910

Leu Ala Gly Gln Pro Glu Ala Leu Ser Ala Gln Cys Pro Leu Gly Gln
915 920 925

Arg Cys Leu Glu Lys Ala Pro Gly Gln Cys Leu Arg Pro Pro Cys Glu
930 935 940

Ala Trp Gly Glu Cys Gly Ala Glu Glu Pro Pro Ser Thr Pro Cys Leu
945 950 955 960

Pro Arg Ser Gly His Leu Asp Asn Asn Cys Ala Arg Leu Thr Leu His
965 970 975

Phe Asn Arg Asp His Val Pro Gln Gly Thr Thr Val Gly Ala Ile Cys

980

39467A.txt.txt
985

990

Ser Gly Ile Arg Ser Leu Pro Ala Thr Arg Ala Val Ala Arg Asp Arg
995 1000 1005

Leu Leu Val Leu Leu Cys Asp Arg Ala Ser Ser Gly Ala Ser Ala
1010 1015 1020

Val Glu Val Ala Val Ser Phe Ser Pro Ala Arg Asp Leu Pro Asp
1025 1030 1035

Ser Ser Leu Ile Gln Gly Ala Ala His Ala Ile Val Ala Ala Ile
1040 1045 1050

Thr Gln Arg Gly Asn Ser Ser Leu Leu Leu Ala Val Thr Glu Val
1055 1060 1065

Lys Val Glu Thr Val Val Thr Gly Gly Ser Ser Thr Gly Leu Leu
1070 1075 1080

Val Pro Val Leu Cys Gly Ala Phe Ser Val Leu Trp Leu Ala Cys
1085 1090 1095

Val Val Leu Cys Val Trp Trp Thr Arg Lys Arg Arg Lys Glu Arg
1100 1105 1110

Glu Arg Ser Arg Leu Pro Arg Glu Glu Ser Ala Asn Asn Gln Trp
1115 1120 1125

Ala Pro Leu Asn Pro Ile Arg Asn Pro Ile Glu Arg Pro Gly Gly
1130 1135 1140

His Lys Asp Val Leu Tyr Gln Cys Lys Asn Phe Thr Pro Pro Pro
1145 1150 1155

Arg Arg Ala Asp Glu Ala Leu Pro Gly Pro Ala Gly His Ala Ala
1160 1165 1170

Val Arg Glu Asp Glu Glu Asp Glu Asp Leu Gly Arg Gly Glu Glu
1175 1180 1185

Asp Ser Leu Glu Ala Glu Lys Phe Leu Ser His Lys Phe Thr Lys
1190 1195 1200

Asp Pro Gly Arg Ser Pro Gly Arg Pro Ala His Trp Ala Ser Gly
1205 1210 1215

Pro Lys Val Asp Asn Arg Ala Val Arg Ser Ile Asn Glu Ala Arg
1220 1225 1230

Tyr Ala Gly Lys Glu

39467A.txt.txt

1235

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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Hey-1

<400> 36
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caataacagt ttgtctgagc tgagaaggct ggtacccagt gcttttgaga agcagggatc 360
tgctaagcta gaaaaagccg agatcctgca gatgaccgtg gatcacctga aaatgctgca 420
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39467A.txt.txt

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<210> 37
 <211> 304
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Hey-1

<400> 37

Met Lys Arg Ala His Pro Glu Tyr Ser Ser Ser Asp Ser Glu Leu Asp
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Glu Thr Ile Glu Val Glu Lys Glu Ser Ala Asp Glu Asn Gly Asn Leu
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Ser Ser Ala Leu Gly Ser Met Ser Pro Thr Thr Ser Ser Gln Ile Leu
 35 40 45

Ala Arg Lys Arg Arg Arg Gly Ile Ile Glu Lys Arg Arg Arg Asp Arg
 50 55 60

Ile Asn Asn Ser Leu Ser Glu Leu Arg Arg Leu Val Pro Ser Ala Phe
 65 70 75 80

Glu Lys Gln Gly Ser Ala Lys Leu Glu Lys Ala Glu Ile Leu Gln Met
 85 90 95

Thr Val Asp His Leu Lys Met Leu His Thr Ala Gly Gly Lys Gly Tyr
 100 105 110

Phe Asp Ala His Ala Leu Ala Met Asp Tyr Arg Ser Leu Gly Phe Arg
 115 120 125

Glu Cys Leu Ala Glu Val Ala Arg Tyr Leu Ser Ile Ile Glu Gly Leu

39467A.txt.txt

130

135

140

Asp Ala Ser Asp Pro Leu Arg Val Arg Leu Val Ser His Leu Asn Asn
 145 150 155 160

Tyr Ala Ser Gln Arg Glu Ala Ala Ser Gly Ala His Ala Gly Leu Gly
 165 170 175

His Ile Pro Trp Gly Thr Val Phe Gly His His Pro His Ile Ala His
 180 185 190

Pro Leu Leu Leu Pro Gln Asn Gly His Gly Asn Ala Gly Thr Thr Ala
 195 200 205

Ser Pro Thr Glu Pro His His Gln Gly Arg Leu Gly Ser Ala His Pro
 210 215 220

Glu Ala Pro Ala Leu Arg Ala Pro Pro Ser Gly Ser Phe Gly Pro Val
 225 230 235 240

Leu Pro Val Val Thr Ser Ala Ser Lys Leu Ser Leu Pro Leu Leu Ser
 245 250 255

Ser Val Ala Ser Leu Ser Ala Phe Pro Phe Ser Phe Gly Ser Phe His
 260 265 270

Leu Leu Ser Pro Asn Ala Leu Ser Pro Ser Ala Pro Thr Gln Ala Ala
 275 280 285

Asn Leu Gly Lys Pro Tyr Arg Pro Trp Gly Thr Glu Ile Gly Ala Phe
 290 295 300

<210> 38
 <211> 2533
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Hey-2

<400> 38
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 acaattactc ggggcaaagt actagctctg tgattagatt gaattctcca acaacaacat 180
 ctcagattat ggcaagaaag aaaaggagag ggattataga gaaaaggcgt cgggatcgga 240
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39467A.txt.txt

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gcccgccctt gtcagtatca gccacgtcca gtcctcagca gaccagcagt ggaacaaaca	1020
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39467A.txt.txt

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<210> 39
 <211> 337
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Hey-2

<400> 39

Met Lys Arg Pro Cys Glu Glu Thr Thr Ser Glu Ser Asp Met Asp Glu
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Thr Ile Asp Val Gly Ser Glu Asn Asn Tyr Ser Gly Gln Ser Thr Ser
 20 25 30

Ser Val Ile Arg Leu Asn Ser Pro Thr Thr Thr Ser Gln Ile Met Ala
 35 40 45

Arg Lys Lys Arg Arg Gly Ile Ile Glu Lys Arg Arg Arg Asp Arg Ile
 50 55 60

Asn Asn Ser Leu Ser Glu Leu Arg Arg Leu Val Pro Thr Ala Phe Glu
 65 70 75 80

Lys Gln Gly Ser Ala Lys Leu Glu Lys Ala Glu Ile Leu Gln Met Thr
 85 90 95

Val Asp His Leu Lys Met Leu Gln Ala Thr Gly Gly Lys Gly Tyr Phe
 100 105 110

Asp Ala His Ala Leu Ala Met Asp Phe Met Ser Ile Gly Phe Arg Glu
 115 120 125

Cys Leu Thr Glu Val Ala Arg Tyr Leu Ser Ser Val Glu Gly Leu Asp
 130 135 140

Ser Ser Asp Pro Leu Arg Val Arg Leu Val Ser His Leu Ser Thr Cys
 145 150 155 160

Ala Thr Gln Arg Glu Ala Ala Ala Met Thr Ser Ser Met Ala His His
 165 170 175

His His Pro Leu His Pro His His Trp Ala Ala Ala Phe His His Leu
 180 185 190

Pro Ala Ala Leu Leu Gln Pro Asn Gly Leu His Ala Ser Glu Ser Thr
 195 200 205

39467A.txt.txt

Pro Cys Arg Leu Ser Thr Thr Ser Glu Val Pro Pro Ala His Gly Ser
 210 215 220

Ala Leu Leu Thr Ala Thr Phe Ala His Ala Asp Ser Ala Leu Arg Met
 225 230 235 240

Pro Ser Thr Gly Ser Val Ala Pro Cys Val Pro Pro Leu Ser Thr Ser
 245 250 255

Leu Leu Ser Leu Ser Ala Thr Val His Ala Ala Ala Ala Ala Ala Thr
 260 265 270

Ala Ala Ala His Ser Phe Pro Leu Ser Phe Ala Gly Ala Phe Pro Met
 275 280 285

Leu Pro Pro Asn Ala Ala Ala Ala Val Ala Ala Ala Thr Ala Ile Ser
 290 295 300

Pro Pro Leu Ser Val Ser Ala Thr Ser Ser Pro Gln Gln Thr Ser Ser
 305 310 315 320

Gly Thr Asn Asn Lys Pro Tyr Arg Pro Trp Gly Thr Glu Val Gly Ala
 325 330 335

Phe

<210> 40
 <211> 1471
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Hes-1

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 cttgctcagt agttttgtga aagtctcaag taaaagagac acaaacaaaa aattcttttt 180
 cgtgaagaac tccaaaaata aaattctcta gagataaaaa aaaaaaaaaa aggaaaatgc 240
 cagctgatat aatggagaaa aattcctcgt ccccggtggc tgctaccca gccagtgtca 300
 acacgacacc ggataaacca aagacagcat ctgagcacag aaagtcata aagcctatta 360
 tggagaaaag acgaagagca agaataaatg aaagtctgag ccagctgaaa aactgattt 420
 tggatgctct gaagaaagat agctcgcggc attccaagct ggagaaggcg gacattctgg 480
 aatgacagt gaagcacctc cggaacctgc agcgggcgca gatgacggct gcgctgagca 540
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39467A.txt.txt

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<210> 41
 <211> 280
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Hes-1

<400> 41

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Thr Pro Ala Ser Val Asn Thr Thr Pro Asp Lys Pro Lys Thr Ala Ser
20 25 30

Glu His Arg Lys Ser Ser Lys Pro Ile Met Glu Lys Arg Arg Arg Ala
35 40 45

Arg Ile Asn Glu Ser Leu Ser Gln Leu Lys Thr Leu Ile Leu Asp Ala
50 55 60

Leu Lys Lys Asp Ser Ser Arg His Ser Lys Leu Glu Lys Ala Asp Ile
65 70 75 80

Leu Glu Met Thr Val Lys His Leu Arg Asn Leu Gln Arg Ala Gln Met
85 90 95

Thr Ala Ala Leu Ser Thr Asp Pro Ser Val Leu Gly Lys Tyr Arg Ala

100

39467A.txt.txt
105

110

Gly Phe Ser Glu Cys Met Asn Glu Val Thr Arg Phe Leu Ser Thr Cys
115 120 125

Glu Gly Val Asn Thr Glu Val Arg Thr Arg Leu Leu Gly His Leu Ala
130 135 140

Asn Cys Met Thr Gln Ile Asn Ala Met Thr Tyr Pro Gly Gln Pro His
145 150 155 160

Pro Ala Leu Gln Ala Pro Pro Pro Pro Pro Pro Gly Pro Gly Gly Pro
165 170 175

Gln His Ala Pro Phe Ala Pro Pro Pro Pro Leu Val Pro Ile Pro Gly
180 185 190

Gly Ala Ala Pro Pro Pro Gly Gly Ala Pro Cys Lys Leu Gly Ser Gln
195 200 205

Ala Gly Glu Ala Ala Lys Val Phe Gly Gly Phe Gln Val Val Pro Ala
210 215 220

Pro Asp Gly Gln Phe Ala Phe Leu Ile Pro Asn Gly Ala Phe Ala His
225 230 235 240

Ser Gly Pro Val Ile Pro Val Tyr Thr Ser Asn Ser Gly Thr Ser Val
245 250 255

Gly Pro Asn Ala Val Ser Pro Ser Ser Gly Pro Ser Leu Thr Ala Asp
260 265 270

Ser Met Trp Arg Pro Trp Arg Asn
275 280

<210> 42
<211> 10386
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> APC

<220>
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<222> (9521)..(9521)
<223> n is a, c, g, or t

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aagataattc caatcatctt acaaaaactgg aaactgaggc atctaatatg aaggaagtac 180

39467A.txt.txt

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39467A.txt.txt

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39467A.txt.txt

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39467A.txt.txt

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His Leu Thr Lys Leu Glu Thr Glu Ala Ser Asn Met Lys Glu Val Leu
 35 40 45

Lys Gln Leu Gln Gly Ser Ile Glu Asp Glu Ala Met Ala Ser Ser Gly
 50 55 60

Gln Ile Asp Leu Leu Glu Arg Leu Lys Glu Leu Asn Leu Asp Ser Ser
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Asn Phe Pro Gly Val Lys Leu Arg Ser Lys Met Ser Leu Arg Ser Tyr
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Gly Ser Arg Glu Gly Ser Val Ser Ser Arg Ser Gly Glu Cys Ser Pro
 100 105 110

Val Pro Met Gly Ser Phe Pro Arg Arg Gly Phe Val Asn Gly Ser Arg
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 180 185 190

Ala Arg Gln Ile Arg Val Ala Met Glu Glu Gln Leu Gly Thr Cys Gln
 195 200 205

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Glu Lys Asp Ile Leu Arg Ile Arg Gln Leu Leu Gln Ser Gln Ala Thr
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Ala Glu Arg Gln Asn Glu Gly Gln Gly Val Gly Glu Ile Asn Met Ala
 260 265 270

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Thr Ser His Leu Gly Thr Lys Val Glu Met Val Tyr Ser Leu Leu Ser
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Leu Pro Leu Leu Ile Gln Leu Leu His Gly Asn Asp Lys Asp Ser Val
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Leu Leu Gly Asn Ser Arg Gly Ser Lys Glu Ala Arg Ala Arg Ala Ser
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Ala Ala Leu His Asn Ile Ile His Ser Gln Pro Asp Asp Lys Arg Gly
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Arg Arg Glu Ile Arg Val Leu His Leu Leu Glu Gln Ile Arg Ala Tyr
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Cys Glu Thr Cys Trp Glu Trp Gln Glu Ala His Glu Pro Gly Met Asp
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Gln Asp Lys Asn Pro Met Pro Ala Pro Val Glu His Gln Ile Cys Pro
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Ala Val Cys Val Leu Met Lys Leu Ser Phe Asp Glu Glu His Arg His
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Ala Met Asn Glu Leu Gly Gly Leu Gln Ala Ile Ala Glu Leu Leu Gln
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39467A.txt.txt

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Ala Ser Val Leu Arg Asn Leu Ser Trp Arg Ala Asp Val Asn Ser Lys
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Lys Thr Leu Arg Glu Val Gly Ser Val Lys Ala Leu Met Glu Cys Ala
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Leu Glu Val Lys Lys Glu Ser Thr Leu Lys Ser Val Leu Ser Ala Leu
 580 585 590

Trp Asn Leu Ser Ala His Cys Thr Glu Asn Lys Ala Asp Ile Cys Ala
 595 600 605

Val Asp Gly Ala Leu Ala Phe Leu Val Gly Thr Leu Thr Tyr Arg Ser
 610 615 620

Gln Thr Asn Thr Leu Ala Ile Ile Glu Ser Gly Gly Gly Ile Leu Arg
 625 630 635 640

Asn Val Ser Ser Leu Ile Ala Thr Asn Glu Asp His Arg Gln Ile Leu
 645 650 655

Arg Glu Asn Asn Cys Leu Gln Thr Leu Leu Gln His Leu Lys Ser His
 660 665 670

Ser Leu Thr Ile Val Ser Asn Ala Cys Gly Thr Leu Trp Asn Leu Ser
 675 680 685

Ala Arg Asn Pro Lys Asp Gln Glu Ala Leu Trp Asp Met Gly Ala Val
 690 695 700

Ser Met Leu Lys Asn Leu Ile His Ser Lys His Lys Met Ile Ala Met
 705 710 715 720

Gly Ser Ala Ala Ala Leu Arg Asn Leu Met Ala Asn Arg Pro Ala Lys
 725 730 735

Tyr Lys Asp Ala Asn Ile Met Ser Pro Gly Ser Ser Leu Pro Ser Leu
 740 745 750

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His Val Arg Lys Gln Lys Ala Leu Glu Ala Glu Leu Asp Ala Gln His
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His Arg Ser Lys Gln Arg His Lys Gln Ser Leu Tyr Gly Asp Tyr Val
 785 790 795 800

Phe Asp Thr Asn Arg His Asp Asp Asn Arg Ser Asp Asn Phe Asn Thr
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Gly Asn Met Thr Val Leu Ser Pro Tyr Leu Asn Thr Thr Val Leu Pro
 820 825 830

Ser Ser Ser Ser Ser Arg Gly Ser Leu Asp Ser Ser Arg Ser Glu Lys
 835 840 845

Asp Arg Ser Leu Glu Arg Glu Arg Gly Ile Gly Leu Gly Asn Tyr His
 850 855 860

Pro Ala Thr Glu Asn Pro Gly Thr Ser Ser Lys Arg Gly Leu Gln Ile
 865 870 875 880

Ser Thr Thr Ala Ala Gln Ile Ala Lys Val Met Glu Glu Val Ser Ala
 885 890 895

Ile His Thr Ser Gln Glu Asp Arg Ser Ser Gly Ser Thr Thr Glu Leu
 900 905 910

His Cys Val Thr Asp Glu Arg Asn Ala Leu Arg Arg Ser Ser Ala Ala
 915 920 925

His Thr His Ser Asn Thr Tyr Asn Phe Thr Lys Ser Glu Asn Ser Asn
 930 935 940

Arg Thr Cys Ser Met Pro Tyr Ala Lys Leu Glu Tyr Lys Arg Ser Ser
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Asn Asp Ser Leu Asn Ser Val Ser Ser Ser Asp Gly Tyr Gly Lys Arg
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Gly Gln Met Lys Pro Ser Ile Glu Ser Tyr Ser Glu Asp Asp Glu Ser
 980 985 990

Lys Phe Cys Ser Tyr Gly Gln Tyr Pro Ala Asp Leu Ala His Lys Ile
 995 1000 1005

His Ser Ala Asn His Met Asp Asp Asn Asp Gly Glu Leu Asp Thr
 1010 1015 1020

39467A.txt.txt

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 1070 1075 1080
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 Val Ser Pro Tyr Arg Ser Arg Gly Ala Asn Gly Ser Glu Thr Asn
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 Val Glu Asp Thr Pro Ile Cys Phe Ser Arg Cys Ser Ser Leu Ser
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39467A.txt.txt

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 Glu Lys Ile Gly Thr Arg Ser Ala Glu Asp Pro Val Ser Glu Val
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 Pro Lys Ser Pro Pro Glu His Tyr Val Gln Glu Thr Pro Leu Met
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39467A.txt.txt

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39467A.txt.txt

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 1835 1840 1845
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39467A.txt.txt

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 2105 2110 2115
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 2120 2125 2130
 Ser Ile Leu Ser Leu Lys Ser Gly Ile Ser Leu Gly Ser Pro Phe
 2135 2140 2145
 His Leu Thr Pro Asp Gln Glu Glu Lys Pro Phe Thr Ser Asn Lys
 2150 2155 2160
 Gly Pro Arg Ile Leu Lys Pro Gly Glu Lys Ser Thr Leu Glu Thr
 2165 2170 2175
 Lys Lys Ile Glu Ser Glu Ser Lys Gly Ile Lys Gly Gly Lys Lys
 2180 2185 2190
 Val Tyr Lys Ser Leu Ile Thr Gly Lys Val Arg Ser Asn Ser Glu
 2195 2200 2205
 Ile Ser Gly Gln Met Lys Gln Pro Leu Gln Ala Asn Met Pro Ser
 2210 2215 2220
 Ile Ser Arg Gly Arg Thr Met Ile His Ile Pro Gly Val Arg Asn
 2225 2230 2235
 Ser Ser Ser Ser Thr Ser Pro Val Ser Lys Lys Gly Pro Pro Leu
 2240 2245 2250
 Lys Thr Pro Ala Ser Lys Ser Pro Ser Glu Gly Gln Thr Ala Thr
 2255 2260 2265
 Thr Ser Pro Arg Gly Ala Lys Pro Ser Val Lys Ser Glu Leu Ser
 2270 2275 2280
 Pro Val Ala Arg Gln Thr Ser Gln Ile Gly Gly Ser Ser Lys Ala
 2285 2290 2295

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Pro Ser Arg Ser Gly Ser Arg Asp Ser Thr Pro Ser Arg Pro Ala
 2300 2305 2310

Gln Gln Pro Leu Ser Arg Pro Ile Gln Ser Pro Gly Arg Asn Ser
 2315 2320 2325

Ile Ser Pro Gly Arg Asn Gly Ile Ser Pro Pro Asn Lys Leu Ser
 2330 2335 2340

Gln Leu Pro Arg Thr Ser Ser Pro Ser Thr Ala Ser Thr Lys Ser
 2345 2350 2355

Ser Gly Ser Gly Lys Met Ser Tyr Thr Ser Pro Gly Arg Gln Met
 2360 2365 2370

Ser Gln Gln Asn Leu Thr Lys Gln Thr Gly Leu Ser Lys Asn Ala
 2375 2380 2385

Ser Ser Ile Pro Arg Ser Glu Ser Ala Ser Lys Gly Leu Asn Gln
 2390 2395 2400

Met Asn Asn Gly Asn Gly Ala Asn Lys Lys Val Glu Leu Ser Arg
 2405 2410 2415

Met Ser Ser Thr Lys Ser Ser Gly Ser Glu Ser Asp Arg Ser Glu
 2420 2425 2430

Arg Pro Val Leu Val Arg Gln Ser Thr Phe Ile Lys Glu Ala Pro
 2435 2440 2445

Ser Pro Thr Leu Arg Arg Lys Leu Glu Glu Ser Ala Ser Phe Glu
 2450 2455 2460

Ser Leu Ser Pro Ser Ser Arg Pro Ala Ser Pro Thr Arg Ser Gln
 2465 2470 2475

Ala Gln Thr Pro Val Leu Ser Pro Ser Leu Pro Asp Met Ser Leu
 2480 2485 2490

Ser Thr His Ser Ser Val Gln Ala Gly Gly Trp Arg Lys Leu Pro
 2495 2500 2505

Pro Asn Leu Ser Pro Thr Ile Glu Tyr Asn Asp Gly Arg Pro Ala
 2510 2515 2520

Lys Arg His Asp Ile Ala Arg Ser His Ser Glu Ser Pro Ser Arg
 2525 2530 2535

Leu Pro Ile Asn Arg Ser Gly Thr Trp Lys Arg Glu His Ser Lys
 2540 2545 2550

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His Ser Ser Ser Leu Pro Arg Val Ser Thr Trp Arg Arg Thr Gly
 2555 2560 2565
 Ser Ser Ser Ser Ile Leu Ser Ala Ser Ser Glu Ser Ser Glu Lys
 2570 2575 2580
 Ala Lys Ser Glu Asp Glu Lys His Val Asn Ser Ile Ser Gly Thr
 2585 2590 2595
 Lys Gln Ser Lys Glu Asn Gln Val Ser Ala Lys Gly Thr Trp Arg
 2600 2605 2610
 Lys Ile Lys Glu Asn Glu Phe Ser Pro Thr Asn Ser Thr Ser Gln
 2615 2620 2625
 Thr Val Ser Ser Gly Ala Thr Asn Gly Ala Glu Ser Lys Thr Leu
 2630 2635 2640
 Ile Tyr Gln Met Ala Pro Ala Val Ser Lys Thr Glu Asp Val Trp
 2645 2650 2655
 Val Arg Ile Glu Asp Cys Pro Ile Asn Asn Pro Arg Ser Gly Arg
 2660 2665 2670
 Ser Pro Thr Gly Asn Thr Pro Pro Val Ile Asp Ser Val Ser Glu
 2675 2680 2685
 Lys Ala Asn Pro Asn Ile Lys Asp Ser Lys Asp Asn Gln Ala Lys
 2690 2695 2700
 Gln Asn Val Gly Asn Gly Ser Val Pro Met Arg Thr Val Gly Leu
 2705 2710 2715
 Glu Asn Arg Leu Asn Ser Phe Ile Gln Val Asp Ala Pro Asp Gln
 2720 2725 2730
 Lys Gly Thr Glu Ile Lys Pro Gly Gln Asn Asn Pro Val Pro Val
 2735 2740 2745
 Ser Glu Thr Asn Glu Ser Ser Ile Val Glu Arg Thr Pro Phe Ser
 2750 2755 2760
 Ser Ser Ser Ser Ser Lys His Ser Ser Pro Ser Gly Thr Val Ala
 2765 2770 2775
 Ala Arg Val Thr Pro Phe Asn Tyr Asn Pro Ser Pro Arg Lys Ser
 2780 2785 2790
 Ser Ala Asp Ser Thr Ser Ala Arg Pro Ser Gln Ile Pro Thr Pro
 2795 2800 2805

39467A.txt.txt
 Val Asn Asn Asn Thr Lys Lys Arg Asp Ser Lys Thr Asp Ser Thr
 2810 2815 2820

Glu Ser Ser Gly Thr Gln Ser Pro Lys Arg His Ser Gly Ser Tyr
 2825 2830 2835

Leu Val Thr Ser Val
 2840

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 <211> 2121
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> C-myc

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 ataaaagccg gttttcgggg ctttatctaa ctcgctgtag taattccagc gagaggcaga 180
 gggagcgcgc gggcggccgg ctaggggtgga agagccgggc gagcagagct gcgctgcggg 240
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 cagcagctc ccgcgacgat gcccctcaac gttagcttca ccaacaggaa ctatgacctc 600
 gactacgact cgggtgcagcc gtatttctac tgcgacgagg aggagaactt ctaccagcag 660
 cagcagcaga gcgagctgca gccccggcg ccagcagagg atatctggaa gaaattcgag 720
 ctgctgcca cccgcccct gtcccctagc cgccgctccg ggctctgctc gccctcctac 780
 gttgcggtca cacccttctc ctttcgggga gacaacgacg gcggtggcgg gagcttctcc 840
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 agcttgtagc tgcaggatct gagcgccgcc gcctcagagt gcatcgacct ctcggtgggtc 1140
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 gccttctctc cgtcctcgga ttctctgctc tcctcgacgg agtcctcccc gcagggcagc 1260
 cccgagcccc tgggtgtcca tgaggagaca ccgccacca ccagcagcga ctctgaggag 1320
 gaacaagaag atgaggaaga aatcgatgtt gtttctgttq aaaagaggca ggctcctggc 1380

39467A.txt.txt

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aaaaggtcag agtctggatc accttctgct ggaggccaca gcaaacctcc tcacagccca 1440
ctggtcctca agaggtgcc a gctctccaca catcagcaca actacgcagc gcctccctcc 1500
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cagatcagca acaaccgaaa atgcaccagc cccaggtcct cggacaccga ggagaatgtc 1620
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attgttttta aaaaatttta a 2121

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<210> 45
 <211> 439
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> C-myc

<400> 45

Met Pro Leu Asn Val Ser Phe Thr Asn Arg Asn Tyr Asp Leu Asp Tyr
1 5 10 15

Asp Ser Val Gln Pro Tyr Phe Tyr Cys Asp Glu Glu Glu Asn Phe Tyr
20 25 30

Gln Gln Gln Gln Gln Ser Glu Leu Gln Pro Pro Ala Pro Ser Glu Asp
35 40 45

Ile Trp Lys Lys Phe Glu Leu Leu Pro Thr Pro Pro Leu Ser Pro Ser
50 55 60

Arg Arg Ser Gly Leu Cys Ser Pro Ser Tyr Val Ala Val Thr Pro Phe
65 70 75 80

Ser Leu Arg Gly Asp Asn Asp Gly Gly Gly Gly Ser Phe Ser Thr Ala
85 90 95

Asp Gln Leu Glu Met Val Thr Glu Leu Leu Gly Gly Asp Met Val Asn
100 105 110

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Gln Ser Phe Ile Cys Asp Pro Asp Asp Glu Thr Phe Ile Lys Asn Ile
 115 120 125
 Ile Ile Gln Asp Cys Met Trp Ser Gly Phe Ser Ala Ala Ala Lys Leu
 130 135 140
 Val Ser Glu Lys Leu Ala Ser Tyr Gln Ala Ala Arg Lys Asp Ser Gly
 145 150 155 160
 Ser Pro Asn Pro Ala Arg Gly His Ser Val Cys Ser Thr Ser Ser Leu
 165 170 175
 Tyr Leu Gln Asp Leu Ser Ala Ala Ala Ser Glu Cys Ile Asp Pro Ser
 180 185 190
 Val Val Phe Pro Tyr Pro Leu Asn Asp Ser Ser Ser Pro Lys Ser Cys
 195 200 205
 Ala Ser Gln Asp Ser Ser Ala Phe Ser Pro Ser Ser Asp Ser Leu Leu
 210 215 220
 Ser Ser Thr Glu Ser Ser Pro Gln Gly Ser Pro Glu Pro Leu Val Leu
 225 230 235 240
 His Glu Glu Thr Pro Pro Thr Thr Ser Ser Asp Ser Glu Glu Glu Gln
 245 250 255
 Glu Asp Glu Glu Glu Ile Asp Val Val Ser Val Glu Lys Arg Gln Ala
 260 265 270
 Pro Gly Lys Arg Ser Glu Ser Gly Ser Pro Ser Ala Gly Gly His Ser
 275 280 285
 Lys Pro Pro His Ser Pro Leu Val Leu Lys Arg Cys His Val Ser Thr
 290 295 300
 His Gln His Asn Tyr Ala Ala Pro Pro Ser Thr Arg Lys Asp Tyr Pro
 305 310 315 320
 Ala Ala Lys Arg Val Lys Leu Asp Ser Val Arg Val Leu Arg Gln Ile
 325 330 335
 Ser Asn Asn Arg Lys Cys Thr Ser Pro Arg Ser Ser Asp Thr Glu Glu
 340 345 350
 Asn Val Lys Arg Arg Thr His Asn Val Leu Glu Arg Gln Arg Arg Asn
 355 360 365
 Glu Leu Lys Arg Ser Phe Phe Ala Leu Arg Asp Gln Ile Pro Glu Leu
 370 375 380

39467A.txt.txt

Glu Asn Asn Glu Lys Ala Pro Lys Val Val Ile Leu Lys Lys Ala Thr
 385 390 395 400

Ala Tyr Ile Leu Ser Val Gln Ala Glu Glu Gln Lys Leu Ile Ser Glu
 405 410 415

Glu Asp Leu Leu Arg Lys Arg Arg Glu Gln Leu Lys His Lys Leu Glu
 420 425 430

Gln Leu Arg Asn Ser Cys Ala
 435

<210> 46
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 <212> PRT
 <213> HIV

<220>
 <221> misc_feature
 <223> TAT protein

<400> 46

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
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<210> 47
 <211> 54
 <212> DNA
 <213> Artificial sequence

<220>
 <223> synthetic primer

<220>
 <221> misc_feature
 <223> Prox-1 sense

<400> 47
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<210> 48
 <211> 58
 <212> DNA
 <213> Artificial sequence

<220>
 <223> synthetic primer

<220>
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 <223> Prox-1 anti-sense

<400> 48
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<210> 49
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 <212> DNA
 <213> Artificial sequence

39467A.txt.txt

<220>
<223> Synthetic primer

<220>
<221> misc_feature
<223> Prox-2 sense

<400> 49
tgagccagtt tgatatggat ttcaagagaa tccatatcaa actggctctt ttttc 55

<210> 50
<211> 58
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic primer

<220>
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<223> Prox-2 anti-sense

<400> 50
tcgagaaaa agagccagtt tgatatggat tctcttgaaa tccatatcaa actgctca 58